

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 12, 2004, 19:34:21 ; Search time 93.2699 Seconds
(without alignments)
1750.959 Million cell updates/sec

Title: US-08-978-217-16_COPY_2_371

Perfect score: 1980

Sequence: 1 ATCTCISNFSNYFNAYSS.....YKFGKNSGKWEVEGSRN 370

Scoring table:

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Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB=Issued Patents NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-LOOPTXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCLIGN=200 -THR SCORE=ptc -THR MAX=100 -THR MIN=0 -ALIGN=15
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-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA.*
1: /cgn2_6/prodata/1/ina/5A.COMB.seq.*
2: /cgn2_6/prodata/1/ina/5B.COMB.seq.*
3: /cgn2_6/prodata/1/ina/6A.COMB.seq.*
4: /cgn2_6/prodata/1/ina/6B.COMB.seq.*
5: /cgn2_6/prodata/1/ina/PCTUS.COMB.seq.*
6: /cgn2_6/prodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1707	86.2	1907	4	US-09-300-958A-27
2	1707	86.2	1907	4	US-09-570-593-4
3	1707	86.2	1920	1	US-08-746-789A-1
4	803	40.6	502	4	US-09-389-681-282
5	803	40.6	502	4	US-09-620-405B-282
6	803	40.6	502	4	US-09-339-338-282
7	803	40.6	502	4	US-09-433-826B-282
8	803	40.6	502	4	US-09-604-287A-282
9	586	29.6	5427	3	US-09-009-913-2
10	580	29.3	5510	3	US-09-009-913-3
11	580	29.3	5867	3	US-09-009-913-4
12	543	27.4	852	3	US-09-020-956-44

c 13	543	27.4	852	3	US-09-030-607-44	Sequence 44, Appl
c 14	543	27.4	852	4	US-09-439-313-44	Sequence 44, Appl
c 15	543	27.4	852	4	US-09-352-616A-44	Sequence 44, Appl
c 16	543	27.4	852	4	US-09-232-149A-44	Sequence 44, Appl
c 17	507	25.6	848	3	US-09-009-913-338	Sequence 338, App
c 18	435.5	22.0	2280	3	US-09-009-913-8	Sequence 8, Appl
c 19	435.5	22.0	2428	3	US-09-009-913-6	Sequence 10, Appl
c 20	435.5	22.0	2498	3	US-09-009-913-10	Sequence 10, Appl
c 21	270	13.6	237	4	US-09-016-434-927	Sequence 927, App
c 22	238.5	12.0	2975	1	US-08-368-281-1	Sequence 1, Appl
c 23	238.5	12.0	3240	1	US-08-368-281-3	Sequence 3, Appl
c 24	234.5	11.8	1528	3	US-08-878-177-3	Sequence 3, Appl
c 25	233.5	11.8	1894	4	US-09-570-593-1	Sequence 1, Appl
c 26	233.5	11.8	1905	3	US-09-055-113-2	Sequence 2, Appl
c 27	233.5	11.8	3317	4	US-09-570-593-12	Sequence 12, Appl
c 28	225.5	11.4	1604	1	US-08-306-691B-43	Sequence 43, Appl
c 29	225.5	11.4	1604	5	PCT-US93-08251-9	Sequence 9, Appl
c 30	225	11.4	1447	3	US-08-878-177-1	Sequence 1, Appl
c 31	225	11.4	2938	2	US-08-343-443B-3	Sequence 3, Appl
c 32	220	11.1	2268	3	US-09-344-579-1	Sequence 1, Appl
c 33	214	10.8	1752	4	US-09-360-779-1	Sequence 1, Appl
c 34	214	10.8	1752	4	US-09-435-335-1	Sequence 1, Appl
c 35	214	10.8	1933	4	US-09-820-759-3	Sequence 3, Appl
c 36	214	10.8	1976	4	US-09-820-759-10	Sequence 10, Appl
c 37	202.5	10.2	2266	2	US-09-213-767-1	Sequence 1, Appl
c 38	198	10.0	665	4	US-09-920-759-11	Sequence 11, Appl
c 39	180.5	9.1	2667	2	US-08-469-412A-1	Sequence 1, Appl
c 40	180.5	9.1	2667	3	US-09-021-715-1	Sequence 1, Appl
c 41	179	9.0	2410	2	US-08-780-835B-1	Sequence 1, Appl
c 42	179	9.0	2410	3	US-09-303-268-1	Sequence 1, Appl
c 43	179	9.0	2410	3	US-09-116-049-1	Sequence 1, Appl
c 44	179	9.0	2410	4	US-09-884-363-1	Sequence 1, Appl
c 45	177	8.9	2064	3	US-08-875-944B-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-300-958A-27
; Sequence 27, Application US/09300958A
; Patent No. 6495319
; GENERAL INFORMATION:
; APPLICANT: McClelland, Michael
; APPLICANT: Welsh, John
; APPLICANT: Trenkle, Thomas
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
; FILE REFERENCE: P-PH 3457
; CURRENT APPLICATION NUMBER: US/09/300,958A
; CURRENT FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/083,331
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/098,070
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/118,624
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 27
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-300-958A-27

Alignment Scores:
Pred. No.: 1.64e-172 Length: 1907
Score: 1707.00 Matches: 322
Percent Similarity: 92.72% Conservative: 22
Best Local Similarity: 86.79% Mismatches: 25
Query Match: 86.21% Indels: 2
DB: 4 Gaps: 2

US-08-978-217-16_COPY_2_371 (1-370) x US-09-300-958A-27 (1-1907)

QY 1 AlaAlaThrCysGluLeuSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20
Db 99 GCTCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTTCAGTGGAGTGTACAGCTCG 158
QY 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
Db 159 GAGACTCCACCTGGCTCTGTTTCCCTGCTGCTCCACCTTTGGGGCCGATGACTTGGTA 218
QY 40 LeuThrLeuAsnGlnGlnMetThrLeuGluGlyProGluValAspAlaSerThrSer 59
Db 219 CTGACCTGACCAACCCAGATGTCATTGGAGGTACAGAGAGCCAGCTGTTGGGG 278
QY 60 GluArgProGlnPheThrPheThrGlnValLeuGluTrpLeuSerTyrGlnValGlu 79
Db 279 GAACAGCCCACTGTCTGTGTCAGACGAGCTTCTGACTGGATCAGTACCAAGTGGAG 338
QY 80 LysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99
Db 339 AAGAACAGTACGACGAGCCGATGACTTCTCAGATGTACATGGATGGCCGAC 398
QY 100 LeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119
Db 399 CTCTGCAATTGTGCTTGGAGAGCTGCTGCTTCTGCTTCTGCTGCTGCTGCTGCTGCT 458
QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleLeuGlu 139
Db 459 CATGCCAGCTGCGAGACCTCCTTCCAGCTCTTCTGATGAGTCTGATGATCATTTGAG 518
QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAsp 159
Db 519 CTGCTGAGAGGATGCTGCTTCCAGAGGCCCTA---GACCCAGGCCCTTTGAC 575
QY 160 GlnGlySerProPheAlaGlnGluLeuLeuAspGlyArgGlnAlaSerProTyrTyr 179
Db 576 CAGGGCAGCCCTTTGCCCCAGGAGCTCTGAGAGCAGCTGAGCAAGCCAGCCCTACCAC 635
QY 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
Db 636 CCGGCGAGCTGTGGCGAGAGCCCTTCCCTGCGAGCTCTGCTGCTGCTGCTGCTGCTGCT 695
QY 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219
Db 696 ACTGCTGCTTCTCGAGCTCCACTCTCAGCTCGGTGGAAGTCACTGAGCTGAGCTGAT 755
QY 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysGlyGluPro 239
Db 756 CCCACTGATGCAAGCTCTTCCCGAGCGATGCTTCTGCTGCTGCTGCTGCTGCTGCTGCT 815
QY 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259
Db 816 AAGCACGGGAAGCGGAACCGAGCGCCGCCCGAAGCTGAGCAAGAGTACTGGGACTGT 875
QY 260 LeuGluGlyLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279
Db 876 CTGAGGGCAAGAGAGCAAGCAGCGCCCGAGAGCACCACCTGTGGGAGTTATCCCG 935
QY 280 AspileLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
Db 936 GACATCTTCATCACCCGGAGCTCAACGAGGGCTCATGAAGTGGAGATCGGCATGAA 995
QY 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 319
Db 996 GGGCTCTTCAAGTTCTGCTGCTCCGAGCTGTGGCCCACTATGGGGCCAAAGAAAG 1055
QY 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 339
Db 1056 AACAGCAACATGACCTACGAGAGAGCTGAGCCGGCCATGAGGTACTTACAAAGGGAG 1115
QY 340 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly 359
Db 1116 ATCTGAGAGGGGTGGATGGCCGCGACTGCTCTACAGTTTGGCAAACTCAAGCGGC 1175

QY 360 TrpLysGluGluGluValGlyGlySerArgAsn 370
Db 1176 TCGAAGAGGAGAGAGGTTTCTCAGAGTCCGAAC 1208

RESULT 2

US-09-570-593-4
; Sequence 4, Application US/09570593
; Patent No. 6566063
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Kin, Hong
; APPLICANT: Harrowe, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (96)...(1211)
; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)
; OTHER INFORMATION: protein.
US-09-570-593-4

Alignment Scores:

Pred. No.: 1.64e-172 Length: 1907
Score: 1707.00 Matches: 322
Percent Similarity: 92.72% Conservative: 22
Best Local Similarity: 86.79% Mismatches: 25
Query Match: 86.21% Indels: 2
DB: 4 Gaps: 2

US-08-978-217-16_COPY_2_371 (1-370) x US-09-570-593-4 (1-1907)

QY 1 AlaAlaThrCysGluLeuSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20
Db 99 GCTCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTTCAGTGGAGTGTACAGCTCG 158
QY 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
Db 159 GAGACTCCACCTGGCTCTGTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 218
QY 40 LeuThrLeuAsnGlnGlnMetThrLeuGluGlyProGluValAspAlaSerThrSer 59
Db 219 CTGACCTGAGCAACCCAGATGTCATTGGAGGTACAGAGAGCCAGCTGTTGGGG 278
QY 60 GluArgProGlnPheThrPheThrGlnValLeuGluTrpLeuSerTyrGlnValGlu 79
Db 279 GAACAGCCCACTGTCTGTGTCAGACGAGCTTCTGACTGGATCAGTACCAAGTGGAG 338
QY 80 LysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99
Db 339 AAGAACAGTACGACGAGCCGATGACTTCTCAGATGTACATGGATGGCCGAC 398
QY 100 LeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119
Db 399 CTCTGCAATTGTGCTTGGAGAGCTGCTGCTTCTGCTTCTGCTGCTGCTGCTGCTGCT 458
QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleLeuGlu 139
Db 459 CATGCCAGCTGCGAGACCTCCTTCCAGCTCTTCTGATGAGTCTGATGATCATTTGAG 518
QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAsp 159
Db 519 CTGCTGAGAGGATGCTGCTTCCAGAGGCCCTA---GACCCAGGCCCTTTGAC 575

QY 240 LysHisGlyLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259
DB 835 AAGCAGCGGAGCGGAAACGAGCGCGCCGCGAAAGCTGAGCAAGAGTCTGGACTGT 894
QY 260 LeuGluGlyLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeu 279
DB 895 CTGAGGGCAAGAGAGAGCAGCAGCGCCGAGAGGACCCACCTGTGGAGTTCATCCGG 954
QY 280 AspIleLeuHisProGluLeuAnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
DB 955 GACATCTCATCCACCGGAGCTCAACGAGGGCTCATGAAGTGGAGATCGGCATGAA 1014
QY 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGluLeuTrpGlyGlnLysLys 319
DB 1015 GGGCTCTTCAAGTCTCCGAGGCTCGGAGGCTGTGGCCCACTATGGGGCGCAAGAAAG 1074
QY 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 339
DB 1075 AACAGCAACATGACCTACGAGAGAGCTGAGCGGGCCATGAGTACTTACAAACGGGAG 1134
QY 340 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerGly 359
DB 1135 ATCTGGAGCGGTGATGCGCGGAGCTCGTCTACAAGTTTGGCAAAACTCAAGCGGC 1194
QY 360 TrpLysGluGluValGlyGluSerArgAsn 370
DB 1195 TGGAGGAGAGAGGTTCTCCAGAGTCGGAC 1227
RESULT 4
US-09-389-681-282
; Sequence 282, Application US/09389681A
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yucui, Jiang
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C3
; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-389-681-282
Alignment Scores:
Pred. No.: 7,91e-77 Length: 502
Score: 803.00 Matches: 149
Percent Similarity: 93.33% Conservative: 5
Best Local Similarity: 90.30% Mismatches: 11
Query Match: 40.56% Indels: 0
DB: Gaps: 0
US-08-978-217-16_COPY_2_371 (1-370) x US-09-389-681-282 (1-502)
QY 184 GlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrPro 203
DB 6 GGGCAGAGAGCCCTCCCGGAGCTCTGAGCTCTCCACCGAGGACTGGTGTCT 65
QY 204 GlnSerSerHisAlaSerAspSerGlySerAspValAspLeuAspLeuThrGluSer 223
DB 66 CGGAGCTCCCTCCTCAGACTCCGTTGGAAGTACGTGGAGCTGGATCCCTGATGTC 125
QY 224 LysValPheProArgAspAspPheThrAspTyrLysGlyGluProLysHisGlyLys 243
DB 126 AAGCTTTCCCGAGCGATGTTTTCGTGACTGCAAGAGGGGGATCCCAAGCAGCGGAG 185
QY 244 ArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGlyLys 263

DB 186 CGGAAACGAGCGCGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAG 245
QY 264 LysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspIleLeuLys 283
DB 246 AAGAGCAAGCAGCGCCGAGGACCCACCTGTGGAGTTCATCCGAGGACATCCTCATC 305
QY 284 HisProGluLeuAnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPheLys 303
DB 306 CACCGGAGCTCAACGAGGGCTCATGAAGTGGAGATCGGCATGAAGGCGTCTTCAAG 365
QY 304 PheLeuArgSerGluAlaValAlaGluLeuTrpGlyGlnLysLysSerAsnMet 323
DB 366 TTCTGCGCTCCGAGGCTGTGGCCCACTATGGGGCGCAAGAAAGAACAGCAACATG 425
QY 324 ThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGluLysLeuGluArg 343
DB 426 ACCTACGAGAGCTGAGCGGGCCATGAGGTACTTACAAACGGGAGATCCTTGAACCG 485
QY 344 ValAspGlyArgArg 348
DB 486 GTGGATGCGCGCGA 500
RESULT 5
US-09-620-405B-282
; Sequence 282, Application US/09620405B
; Patent No. 6528054
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yucui
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C8
; CURRENT APPLICATION NUMBER: US/09/620,405B
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-620-405B-282
Alignment Scores:
Pred. No.: 7,91e-77 Length: 502
Score: 803.00 Matches: 149
Percent Similarity: 93.33% Conservative: 5
Best Local Similarity: 90.30% Mismatches: 11
Query Match: 40.56% Indels: 0
DB: Gaps: 0
US-08-978-217-16_COPY_2_371 (1-370) x US-09-620-405B-282 (1-502)
QY 184 GlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrPro 203
DB 6 GGGCAGAGAGCCCTCCCGGAGCTCTGAGCTCTCCACCGAGGACTGGTGTCT 65
QY 204 GlnSerSerHisAlaSerAspSerGlySerAspValAspLeuAspLeuThrGluSer 223
DB 66 CGGAGCTCCCTCCTCAGACTCCGTTGGAAGTACGTGGAGCTGGATCCCTGATGTC 125
QY 224 LysValPheProArgAspAspPheThrAspTyrLysGlyGluProLysHisGlyLys 243
DB 126 AAGCTTTCCCGAGCGATGTTTTCGTGACTGCAAGAGGGGGATCCCAAGCAGCGGAG 185
QY 244 ArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGlyLys 263
DB 186 CGGAAACGAGCGCGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAG 245

Db 366 TTCTGCGCTCCGAGCTGTGGCCCACTATGGGCGCAAAAGAAAGACAGCAACATG 425
QY 324 ThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluLeuLeuGluArg 343
Db 426 ACCTACGAGAGCTGAGCGCGCCATGAGGTACTACTACAAACGGGAGATCTTGGACGG 485

QY 344 ValAspGlyArgArg 348
Db 486 GTGGATGCCCGCGCA 500

RESULT 8

US-09-604-287A-282
; Sequence 282, Application US/09604287A

; Patent No. 6586572

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yugu

; APPLICANT: Dillon, Devin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Hepler, William T.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.470C7

; CURRENT APPLICATION NUMBER: US/09/604,287A

; NUMBER OF SEQ ID NOS: 489

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-604-287A-282

Alignment Scores:

Pred. No.: 7,91e-77

Score: 803.00

Length: 502

Matches: 149

Conservative: 5

Best Local Similarity: 93.33%

Mismatches: 11

Indels: 0

Query Match: 40.56%

DB: 4

US-08-978-217-16_COPY_2_371 (1-370) x US-09-604-287A-282 (1-502)

QY 184 GlyProGlyAlaProSerProGlySerAspValSerThrAlaArgThrAlaThrPro 203

Db 6 GCGCAGAGGCCCCCTCCCGGAGCTCTGACGCTCCACCGAGGAGCTGGTCTT 65

QY 204 GlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSer 223

Db 66 CGGAGCTCCCACTCTCCAGACTCCGGTGGAGTGACGTGGACCTGGATCCCATGATGGC 125

QY 224 LysValPheProArgAspAspPheThrAspTyrLysLysGlyGluProLysHisGlyLys 243

Db 126 AAGCTCTTCCCGACGATGTTTTCGTGATCGCAGAGGGGATCCCAAGCAGCGGAG 185

QY 244 ArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGlyLys 263

Db 186 CGGAACCGAGCGCGCCCGCCAAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAG 245

QY 264 LysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspLeuLeu 283

Db 246 AAGAGCAAGCAGCGCGCCAGAGGACCCACTGTGGAGTTTATCCGGGACATCTCTCATC 305

QY 284 HisProGluLeuAenGluGlyLeuMetLysTrpGluAenArgHisGluGlyValPheLys 303

Db 306 CACCCGAGCTCAACGAGGGCTCATGAAGTGGAGATCCGGATGATGAAGCGCTCTCAAG 365

QY 304 PheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAenSerAenMet 323

Db 366 TTCTGCGCTCCGAGGCTGTGGCCCACTATGGGCGCAAAAGAAAGACAGCAACATG 425

QY 324 ThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluLeuLeuGluArg 343
Db 426 ACCTACGAGAGCTGAGCGCGCCATGAGGTACTACTACAAACGGGAGATCTTGGACGG 485

QY 344 ValAspGlyArgArg 348
Db 486 GTGGATGCCCGCGCA 500

RESULT 9

US-09-009-913-2

; Sequence 2, Application US/09009913

; Patent No. 6087485

; GENERAL INFORMATION:

; APPLICANT: Axy's Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma Related Genes

; NUMBER OF SEQUENCES: 339

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Bozicevic & Reed, LLP

; STREET: 285 Hamilton Ave, Suite 200

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94301

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/009,913

; FILING DATE: 21-JAN-1998

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Sherwood, Pamela J

; REGISTRATION NUMBER: 36,677

; REFERENCE/DOCKET NUMBER: SEQ-4P

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 650-327-3231

; TELEFAX: 650-327-3231

; TELEX:

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 5427 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

US-09-009-913-2

Alignment Scores:

Pred. No.: 4.64e-52

Score: 586.00

Length: 5427

Matches: 141

Conservative: 51

Best Local Similarity: 50.26%

Mismatches: 86

Query Match: 29.60%

DB: 3

US-08-978-217-16_COPY_2_371 (1-370) x US-09-009-913-2 (1-5427)

QY 26 AlaProAlaProProThrThr-----PheGlyThrGluAspLeuValLeuThr 41

Db 84 GCTGCTCCCTCCATCAGCCACAGCTATTGGATTTCACCCAGAGATCTTTAGTA--- 140

QY 42 LeuAsnGlnGlnMetThrLeuGluGly----- 51

Db 141 -----AATGATCATCATTCGGAAGGAGGTGGTGTATGTAATCTCAACCCCGGCAAC 194

QY 52 -----ProGluLysAlaSerThrThrSerGlu----- 60

Db 195 AACCTCTTCCACGAGCCCGCCAGCTGCGACAGACAGTACTCCAGCTGCTTCCAGT 254

QY 61 -----ArgProGlnPheTrpSerIysThrGlnVal 70
Db 255 GGGTTTTTGGAGCCAGTGGCATGAATTCATCTCAGTACTGGACCAAGTACCAAGTGG 314
QY 71 LeuGlnTrpIleSerThrGlnValGluLysAsnLysTyrAspAlaSerSerIleAspPhe 90
Db 315 TGGAGTGGTCTCCAGCACTCTCGGACCAACCAAGCTGGATGCAATGTATCCCTTTC 374
QY 91 SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeuArgLeu 110
Db 375 CAAGAGTTCGACATCAACGGCGAGCACTCTGAGCATGAGTTGGAGGATTCACCCGG 434
QY 111 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsn--- 129
Db 435 CGCGCAGGAGCGGGCGGAGCTCTCTACAGCAACTTGCAGCATCTGAAGTGGACGGC 494
QY 130 -----SerSerAspGluLeuSerTrpIleLeuLeuLeuGluLysAspGlyMetSer 147
Db 495 CAGTGCAGTAGTAC-----CTG 512
QY 148 PheGlnSerLeuLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnGlu 167
Db 513 TTCAGTCCACACAAATGTCATGTCAAGACTGAACAACTGAGCCT-----TCC 563
QY 168 LeuLeuAspAspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAla 187
Db 564 ATCATGAACACCTGGAAGACGAGACTATTTATATGACACCAACTATGCT----- 614
QY 188 ProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHis 207
Db 615 -----AGCAC----- 620
QY 208 AlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSerLysValPhePro 227
Db 621 -----GTAGATTGTTGGACAGCAAACTTTCCTGC 650
QY 228 ArgAspAspPhe-----ThrAspTyrLysLysGlyGluProLysHisGly 242
Db 651 CGGCTCAGATCTCCATGACACACACAGTCACTCTCTGTCAGAGTCACTGATATG 710
QY 243 LysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGly 262
Db 711 AAAAAGAGAGACAGACCCCTCCGCAAGTGCACACACAA----- 749
QY 263 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAspIleLeu 282
Db 750 -----AAGCAACACCCGAGAGGAGTCACTTATGGGAATTCACTCCGCGACATCCTC 800
QY 283 IleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPhe 302
Db 801 TTGAACCCAGACAGAACCCAGGATTAATAAATGGAGACCGATCTGAGGCGCTCTTC 860
QY 303 LysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsn 322
Db 861 AGGTTCTTGAATCAGAGCGAGTGGCTCAGCTATGGGGTAAAGAGAGAACACACAGCAGC 920
QY 323 MetThrTrpGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluIleLeuGlu 342
Db 921 ATGACCTTGAAGAGCTCAGCGGAGCTATGAGATATTACTAATAAGAGAAATCTGGAG 980
QY 343 ArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGlyTrpLysGlu 362
Db 981 CGTGTGATGACAGCAACTGGTATATAAATTTGGGAAGAATGCCCGAGGATGGAGAA 1040
QY 363 GluGlu 364
Db 1041 AATGAA 1046

RESULT 10

US-09-009-913-3

; Sequence 3, Application US/09009913

; Patent No. 6087485

GENERAL INFORMATION:
APPLICANT: AXYS Pharmaceuticals, Inc.
TITLE OF INVENTION: Asthma Related Genes
NUMBER OF SEQUENCES: 339
CORRESPONDENCE ADDRESS:
ADDRESSEE: Bozicevic & Reed, LLP
STREET: 285 Hamilton Ave, Suite 200
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/009,913
FILING DATE: 21-JAN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sherwood, Pamela J
REGISTRATION NUMBER: 36,677
REFERENCE/DOCKET NUMBER: SEQ-4P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-327-3231
TELEFAX: 650-327-3231
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 5510 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-009-913-3

Alignment Scores:

Pred. No.:	2,08e-51	Length:	5510
Score:	580.00	Matches:	129
Percent Similarity:	54.43%	Conservative:	43
Best Local Similarity:	40.82%	Mismatches:	78
Query Match:	29.29%	Indels:	66
DB:	3	Gaps:	7

US-08-978-217-16_COPY_2_371 (1-370) x US-09-009-913-3 (1-5510)

QY	57	TrpThrSerGluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpIleSerTyr	76
Db	356	TGGCATGAATTCATCTCAGTACTGGACCAAGTACCAAGTGGAGTGGTCCAGCAC	415
QY	77	GlnValGluLysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAsp	96
Db	416	CTCCTGGACCAACCACTGATGCAATTTATCCTTTCCAAGAGTTCCGACATCAAC	475
QY	97	GlyAlaThrLeuCysSerCysAlaLeuGluLeuArgLeuValPheGlyProLeuGly	116
Db	476	GGCGAGCAGCTCTCGAGCATGAGTTCCAGGAGTTCACCGCGGCGGAGGACCGCGGG	535
QY	117	AspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsn-----SerSerAspGlu	133
Db	536	CAGCTCTCTACAGCAACTTGCAGCATCTGAAGTGGAAACCGCCAGTGCAGTAGTGAC---	592
QY	134	LeuSerTrpIleLeuGluLeuGluLysAspGlyMetSerPheGlnGluSerLeuGly	153
Db	593	-----CTGTTCCAGTCCACACAAAT	613
QY	154	AspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAspGlyArg	173
Db	614	GTCAATTGCAAGACTGAACAACTGAGCCT-----TCCATCATGAACACCTGGAAA	664

QY 174 GlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSer 193
 Db 665 GACGAGAACTATTATATGACCAACTATGGT----- 697
 QY 194 AspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGly 213
 Db 698 -----AGCACA----- 703
 QY 214 SerAspValAspLeuAspLeuThrGluSerLysValPheProArgAspAspPhe----- 231
 Db 704 -----GTAGATTGTGGACAGCAAACTTTCTCGCGGCTCAGATCTCATG 751
 QY 232 -----ThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgGlyArg 248
 Db 752 AACACCAACCACTACCTCTCTGTGGCAGAGTCACTGATATGAAAAAGGACGACGACCC 811
 QY 249 ProArgLysLeuSerLysGluTyrTyrTyrAspCysLeuGluGlyLysLysSerHisAla 268
 Db 812 CCTGCCAAGTCCACACAAA-----AAGCACAAC 841
 QY 269 ProArgLysHisLeuTyrGluPheLeuArgAspLeuLeuHisProGluLeuAsn 288
 Db 842 CCGAGAGGAGCTCACTTATGGAAATTCATCCGACATCTCTTGAACCCAGACAGAAC 901
 QY 289 GluGlyLeuMetLysTyrGluAsnArgHisGluGlyValPheLysPheLeuArgSerGlu 308
 Db 902 CCAGATTATAAATGGGAGACCGGATCTGAGGCGCTCTTCAGGTCTTGAATCAGAG 961
 QY 309 AlaValAlaGlnLeuTyrGlyGlnLysLysLysAsnSerAsnMetThrTyrGluLysLeu 328
 Db 962 GCAGTGCTCAGCTATGGGTAAAGAGACACACACAGCAGCATGACCTATGAAAGCTC 1021
 QY 329 SerArgAlaMetArgTyrTyrTyrLysArgGluLeuLeuGluArgValAspGlyArgArg 348
 Db 1022 AGCGAGCTATGAGATATTACTACAAAGAGAAATCTGAGGCGTGTGGATGGACGAAGA 1081
 QY 349 LeuValTyrLysPheGlyLysAsnSerSerGlyTyrLysGluGluGlu 364
 Db 1082 CTGGTATATAAATTTGGAGAGATGCCGAGGATGGAGAGAAATGAA 1129

RESULT 11

US-09-009-913-4

Sequence 4, Application US/09009913

Patent No. 6087485

GENERAL INFORMATION:

APPLICANT: Axys Pharmaceuticals, Inc.

TITLE OF INVENTION: Asthma Related Genes

NUMBER OF SEQUENCES: 339

CORRESPONDENCE ADDRESS:

ADDRESSEE: Bozicevic & Reed, LLP

STREET: 285 Hamilton Ave, Suite 200

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94301

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/009,913

FILING DATE: 21-JAN-1998

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Sherwood, Pamela J

REGISTRATION NUMBER: 36,677

REFERENCE/DOCKET NUMBER: SEQ-4P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650-327-3231
 TELEFAX: 650-327-3231
 TELEX:
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5667 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-09-009-913-4
 Alignment Scores:
 Pred. No.: 2,17e-51 Length: 5667
 Score: 580.00 Matches: 129
 Percent Similarity: 54.43% Conservative: 43
 Best Local Similarity: 40.82% Mismatches: 78
 Query Match: 29.29% Indels: 66
 DB: 3 Gaps: 7

US-08-978-217-16_COPY_2_371 (1-370) X US-09-009-913-4 (1-5667)

QY 57 TrpThrSerGluArgProGlnPheTrpSerLysThrGlnValLeuGluTyrPilesSerTyr 76
 Db 513 TGGCATGAAATTCATCTCAGTACTGACCAAGTACCAGGTGTGGAGTGGCTCCAGCAC 572
 QY 77 GlnValGluLysAsnLysTyrAspAlaSerSerLysAspPheSerArgCysAsnMetAsp 96
 Db 573 CTCCTGGACACCAACAGCTGGATGCCAATTTGTTATCTCTTCCAAAGAGTTCGACATCAAC 632
 QY 97 GlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGly 116
 Db 633 GCGGAGCACCTTCGAGCATGAGTTTCAGAGTTTACCCTGGCGGCGGAGGACGCGCGGG 692
 QY 117 AspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsn-----SerSerAspGlu 133
 Db 693 CAGCTCTCTACAGCAACTTGCAGCATCTGAAGTGAACGCGCCAGTGCAGTAGTGAC--- 749
 QY 134 LeuSerTrpIleLeuGluLeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGly 153
 Db 750 -----CTGTTCCAGTCCACACAAT 770
 QY 154 AspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAspGlyArg 173
 Db 771 GTCATTGTCAAGACTGAACAACTGAGCCT-----TCCATCATGAACACCTGGAAA 821
 QY 174 GlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSer 193
 Db 822 GACGAGAACTATTATATGACCACTATGGT----- 854
 QY 194 AspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGly 213
 Db 855 -----AGCACA----- 860
 QY 214 SerAspValAspLeuAspLeuThrGluSerLysValPheProArgAspAspPhe----- 231
 Db 861 -----GTAGATTGTGGACAGCAAACTTTCTCGCGGCTCAGATCTCCATG 908
 QY 232 -----ThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgGlyArg 248
 Db 909 AACACCACTGCTACCTTCTGTTGAGAGTCACTGATATGAAAAAGGAGGACGACCC 968
 QY 249 ProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGlyLysLysSerLysHisAla 268
 Db 969 CCTGCCAAGTCCACACCAAA-----AAGCACAAC 998
 QY 269 ProArgGlyThrHisLeuTyrGluPheLeuArgAspIleLeuHisProGluLeuAsn 288
 Db 999 CCGAGAGGAGCTCACTTATGGAAATTCATCGGACATCTCTTGAACCCAGACAGAAC 1058
 QY 289 GluGlyLeuMetLysTyrGluAsnArgHisGluGlyValPheLysPheLeuArgSerGlu 308
 Db 1059 CCAGATTATAAATGGGAGACCGATCTGAGGCGCTCTTCAGTTCTTGAATCAGAG 1118

QY 309 AlaValAlaGlnLeuTyrGlyGlnLysLysLysAsnSerAsnMetThrTyrGluLysLeu 328
 Db 1119 GCAGTGCTCAGCTATGGGTAAAGAGAACACACAGCAGCATGACCTATGAAAGTTC 1178
 QY 329 SerArgAlaMetArgTyrTyrLysArgGluLeuLeuGluArgValAspGlyArg 348
 Db 1179 AGCCGAGCTATGAGATATTACTACAAAGAGAAATACTGGAGCGTGTGGATGACCAAGA 1238
 QY 349 LeuValTyrLysPheGlyLysAsnSerSerGlyTyrLysGluGluGlu 364
 Db 1239 CTGGTATATAATTTCGGAGAGATGCCCGAGGATGGAGAGAAATGAA 1286

RESULT 12

US-09-020-956-44/c
 ; Sequence 44, Application US/09020956
 ; Patent No. 6261562
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiaqun
 ; APPLICANT: Dillon, David C.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
 ; NUMBER OF SEQUENCES: 178
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SEED and BERRY LLP
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: USA
 ; ZIP: 98104
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/020,956
 ; FILING DATE: 09-FEB-1998
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Maki, David J.
 ; REGISTRATION NUMBER: 31,392
 ; REFERENCE/DOCKET NUMBER: 210121.427C2
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (206) 622-4900
 ; TELEFAX: (206) 682-6031
 ; INFORMATION FOR SEQ ID NO: 44:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 852 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; ORIGINAL SOURCE:
 ; ORGANISM: Homo sapiens
 ; US-09-020-956-44

Alignment Scores:
 Pred. No.: 1,06e-48 Length: 852
 Score: 543.00 Matches: 124
 Percent Similarity: 54.28% Conservative: 41
 Best Local Similarity: 40.73% Mismatches: 73
 Query Match: 27.42% Indels: 66
 DB: 3 Gaps: 7

US-08-978-217-16_COPY_2_371 (1-370) x US-09-020-956-44 (1-852)

QY 69 GlnValLeuGluTyrPheSerTyrGlnValGluLysAsnLysTyrAspAlaSerSerile 88
 Db 850 CAGGTGTGGAGTGGCTCCATCCCTCTGGACCAACCAAGCTGGATGCCAATTGTATC 791
 QY 89 AspPheSerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluGluLeu 108
 Db 790 CCTTCCANGAGTTCGACATCAACGGCGAGCACCTTTTCGACATGAGTTTCGAGGATTC 731

QY 109 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSer 128
 Db 730 ACCGGGGCGGAGGAGCGGGGGGNCCTCTCTACAGCACTTCGACGATCTGAAGTGG 671
 QY 129 Asn-----SerSerAspGluLeuSerTrpIleileGluLeuLeuGluLysAspGly 145
 Db 670 AACGGCCAGTGCAGTAGTGAC----- 650
 QY 146 MetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAla 155
 Db 649 ---CTGTTCAGTCCACACACAATGTCATGTCAAGACTGAACAAACTGTGACCT- 599
 QY 166 GlnGluLeuAspAspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyPro 185
 Db 598 ---TCCATCATGACACCTGGAAAGACAGACTATTATATGACACCACTATGCT--- 545
 QY 186 GlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSer 205
 Db 544 -----AGCACA----- 539
 QY 206 SerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSerLysVal 225
 Db 538 -----GTAGATTGTTGGACGACAAACT 515
 QY 226 PheProArgAspPhe-----ThrAspTyrLysLysGlyGluProLys 240
 Db 514 TTCTGCGGGCTCAGATCTCCATGACACACCAGTCACCTCTCTGTTGCAGATCACCT 455
 QY 241 HisGlyLysArgLysArgLysArgProArgLysLeuSerLysGluTyrTrpAspCysLeu 260
 Db 454 GATATGAAAAGGAGCAGACCCCTGCCAAGTCCACACCAAA----- 410
 QY 261 GluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAsp 280
 Db 409 -----AAGCACAACCGCAGAGGAGCTCATTTATGGAAATTCATCCGAC 365
 QY 281 IleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGly 300
 Db 364 ATCTCTTGAACCCAGACAGAACCCAGGATTAAATAAATGGGAAGACCGATCTGAGGC 305
 QY 301 ValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysAsn 320
 Db 304 GTCTTCAGGTTCTTGAATCAGAGGAGGCTGCTAGCTTAGGGTAAAGAGAACACAC 245
 QY 321 SerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGluLeu 340
 Db 244 AGCAGCATGACCTATGAAAAGCTCAGCCGAGCTATGAGATAATTACTACAAAGAGAAAT 185
 QY 341 LeuGluArgValAspGlyArgGluLeuValTyrLysPheGlyLysAsnSerSerGlyTrp 360
 Db 184 CTGGAGCGTGTGGATGGAGAGACTGGGTATATAAATTTGGAGAAATGCCCGAGGATGG 125
 QY 361 LysGluGluGlu 364
 Db 124 AGAGAAATGAA 113

RESULT 13

US-09-030-607-44/c
 ; Sequence 44, Application US/09030607
 ; Patent No. 6262245
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiaqun
 ; APPLICANT: Dillon, David C.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
 ; NUMBER OF SEQUENCES: 224
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SEED and BERRY LLP
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: USA
 ; ZIP: 98104

```

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/030,607
FILING DATE: 25-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,332
REFERENCE/DOCKET NUMBER: 210121.427C3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 852 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-030-607-44

Alignment Scores:
Pred. No.: 1.06e-48      Length: 852
Score: 543.00          Matches: 124
Percent Similarity: 54.28%      Conservative: 41
Best Local Similarity: 40.79%   Mismatches: 73
Query Match: 27.42%            Indels: 66
DB: 3                      Gaps: 7

US-08-978-217-16_COPY_2_371 (1-370) x US-09-030-607-44 (1-852)

Qy 69 GlnValLeuGluTrpIleSerTyrGlnValGluLeuAsnLysTyrAspAlaSerSerIle 88
Db 850 CAGTGTGGAGTGGCTCCATCCTCTGGACACACACCGCTGGATGGCAATTGATTC 791
Qy 89 AspPheSerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeu 108
Db 790 CCTTCCAGAGTTCGACATCAACGGCGAGCCTTTCAGCATGATGTTTCAGGAGTTC 731
Qy 109 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSer 128
Db 730 ACCGGGGCGGAGGAGCGGGGGGCANCTCTCTACAGCAACTTCGAGCATCTGAAAGTGG 671
Qy 129 Asn-----SerSerAspGluLeuSerTrpIleLeuLeuLeuGluLysAspGly 145
Db 670 AACGGCCAGTGCAGTAGTGAC-----550
Qy 146 MetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAla 165
Db 649 ---CTGTTCAGTCCACACAAATGTCTTCAAGACTGAACAAACTGAGCCT-----599
Qy 166 GlnGluLeuLeuAspGlyAspGlnAlaSerProTyrTyrCysSerThrTyrGlyPro 185
Db 598 ---TCCATCATGAACACTCGAAGACACAGAACTATTATATGACCAACTATGT---545
Qy 186 GlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSer 205
Db 544 -----AGCACA-----539
Qy 206 SerHisAlaSerAspSerGlySerAspValAspLeuAspLeuThrGluSerLysVal 225
Db 538 -----GTAGATTGTTGGACAGCAAACT 515
Qy 226 PheProArgAspPhe-----ThrAspTyrLysLysGlyGluProLys 240
Db 514 TTCTCGCGGGTCCAGATCTCCATCAACACACAGTCCACCTCTCTGTGTGACAGTCCACCT 455

241 HisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeu 260
454 GATATGAAGAAGGAGCAGACCCCTCCCAAGTCCACACACAAA-----410
261 GluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAsp 280
409 -----AAGCACACACCCGAGGAGGACTCACTTATGGGAATTCATCCGCGAC 365
281 IleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGly 300
364 ATCTCTTGACCCAGACACACCCAGGATTATAAATGGGAGACCCATCTGAGGGC 305
301 ValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlnLysLysLysAsn 320
304 GTCTTCAGGTTCTTGAATCAGAGGCAGTGCCTCAGCTATCGGGTAAAGAGAAACAAC 245
321 SerAsnMetThrTyrGluLeuLeuSerArgAlaMetArgTyrTyrLysLysArgGluLeu 340
244 AGCAGCATGACCTATGAAGAAGCTCAGCCGAGCTATGAGATATTACTACAAAGAGAATT 185
341 LeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGlyTrp 360
184 CTGGAGCGTGTGGATGACGAGGACTGGTATATAAATTTGGGAAGATGCCCGAGGATGG 125
361 LysGluGluGlu 364
124 AGAGAAAATGAA 113

RESULT 14
US-09-439-313-44/c
Sequence 44, Application US/09439313
Patent No. 6329505
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Devin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan Louise
APPLICANT: Jiang Yuqi
APPLICANT: Reed, Steven G.
APPLICANT: Kalos, Michael
APPLICANT: Fanger, Gary
APPLICANT: Retter, Mark
APPLICANT: Solk, John
APPLICANT: Day, Craig
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C9
CURRENT APPLICATION NUMBER: US/09/439,313
CURRENT FILING DATE: 1999-11-12
NUMBER OF SEQ ID NOS: 575
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 44
LENGTH: 852
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc feature
LOCATION: (1) .. (852)
OTHER INFORMATION: n = A, T, C or G
US-09-439-313-44

Alignment Scores:
Pred. No.: 1.06e-48      Length: 852
Score: 543.00          Matches: 124
Percent Similarity: 54.28%      Conservative: 41
Best Local Similarity: 40.79%   Mismatches: 73
Query Match: 27.42%            Indels: 66
DB: 4                      Gaps: 7

US-08-978-217-16_COPY_2_371 (1-370) x US-09-439-313-44 (1-852)

Qy 69 GlnValLeuGluTrpIleSerTyrGlnValGluLeuAsnLysTyrAspAlaSerSerIle 88
Db 69 GlnValLeuGluTrpIleSerTyrGlnValGluLeuAsnLysTyrAspAlaSerSerIle 88

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Db      850 CAGGTGTGGAGTGGCTCCATCCTCTGGACACCAACAGCTGGATGCCAATTGTATC 791
Qy      89  AspPheSerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeu 108
Db      790 CCTTTCAGAGTTCGACATCAACCGGAGCAGCCTTTTCAGCATGATTTTCAGAGTTC 731
Qy      109 ArgLeuValPheGlyProLeuGlyAspGluLeuHisAlaGlnLeuArgAspLeuThrSer 128
Db      730 ACCCGGGGCGGAGGAGCGGGGCANCTCTCTACAGCAACTTGCAGCATCTGAAGTGG 671
Qy      129 Asn-----SerSerAspGluLeuSerTrpIleLeuLeuGluLeuAspGly 145
Db      670 AACGGCCAGTGCAGTAGTGC-----550
Qy      146 MetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAla 165
Db      649 ---CTGTTCAGTCCACACACAAATGTCAATGTCAAGACTGAACAACTGAGCCT-----599
Qy      166 GlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyPro 185
Db      598 ---TCCATCATGAACACTCGGAAGACNAGAACTATTATATGACCAACTATGCT---545
Qy      186 GlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSer 205
Db      544 -----AGCACA-----539
Qy      206 SerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSerIysVal 225
Db      538 -----GTAGATTTGTGGACGACCAAACT 515
Qy      226 PheProArgAspAspPhe-----ThrAspTyrIysLysGlyGluProLys 240
Db      514 TTCTGCGGGCTCAGATCTCCATGCAACCCAGTCACTCTCTCTGTCAGAGTCACT 455
Qy      241 HisGlyLysArgLysArgGlyArgProArgLysLeuSerIysGluTyrTrpAspCysLeu 260
Db      454 GATATGAAAAGGAGGACAGAACCCCTGCGCAAGTGCACCAACCA-----410
Qy      261 GluGlyLysLysSerIysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAsp 280
Db      409 -----AAGCACACCCGAGAGGAGTCACTTATGGAAATTCATCCGAC 365
Qy      281 IleIleuLeuHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGly 300
Db      364 ATCTCTTGACCCACACACAGAACCCAGGATTTAATATGGAGACCCGACTCTGAGGC 305
Qy      301 ValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyClnIysLysLysAsn 320
Db      304 GTCTTCAGTCTCTTGAATCAGAGGAGTGGCTCAGCTATGGGTAAAGAAAGAACAC 245
Qy      321 SerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrIysArgGluIle 340
Db      244 AGCAGCATGACCTATGAAAAGCTCAGCGAGCTATGAGATATTACTACAAAAGAGAAAT 185
Qy      341 LeuGluArgValAspGlyArgLeuValTyrLysPheGlyLysAsnSerSerGlyTrp 360
Db      184 CTGAGCGGTGTGATGACAGAGACTGGTATATAATTTGGGAAGATGCCCGGAGATGG 125
Qy      361 LysGluGluGlu 364
Db      124 AGAGAAAATGAA 113

```

RESULT 15

```

US-09-352-616A-44/c
; Sequence 44, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillion, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Fuqul
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

```

```

; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(852)
; OTHER INFORMATION: n = A,T,C or G
; US-09-352-616A-44

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Alignment Scores:

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Pred. No.: 1,06e-48      Length: 852
Score: 543.00           Matches: 124
Percent Similarity: 54.28%      Conservative: 41
Best Local Similarity: 40.79%   Mismatches: 73
Query Match: 27.42%           Indels: 66
DB: 4                     Gaps: 7

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US-08-978-217-16_COPY_2_371 (1-370) x US-09-352-616A-44 (1-852)

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Qy      69  GlnValLeuGluTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerSerIle 88
Db      850 CAGGTGTGGAGTGGCTCCATCCTCTGGACACCAACAGCTGGATGCCAATTGTATC 791
Qy      89  AspPheSerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeu 108
Db      790 CCTTTCAGAGTTCGACATCAACCGGAGCAGCCTTTTCAGCATGATTTTCAGAGTTC 731
Qy      109 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSer 128
Db      730 ACCCGGGGCGGAGGAGCGGGGCANCTCTCTACAGCAACTTGCAGCATCTGAAGTGG 671
Qy      129 Asn-----SerSerAspGluLeuSerTrpIleLeuLeuGluLysAspGly 145
Db      670 AACGGCCAGTGCAGTAGTGC-----650
Qy      146 MetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAla 165
Db      649 ---CTGTTCAGTCCACACACAACTGTCATGTCAAGACTGAACAACTGAGCCT-----599
Qy      166 GlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyPro 185
Db      598 ---TCCATCATGAACACTCGGAAGACNAGAACTATTATATGACCAACTATGCT---545
Qy      186 GlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSer 205
Db      544 -----AGCACA-----539
Qy      206 SerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSerIysVal 225
Db      538 -----GTAGATTTGTGGACGACCAAACT 515
Qy      226 PheProArgAspAspPhe-----ThrAspTyrIysLysGlyGluProLys 240
Db      514 TTCTGCGGGCTCAGATCTCCATGCAACCCAGTCACTCTCTCTGTCAGAGTCACT 455
Qy      241 HisGlyLysArgLysArgGlyArgProArgLysLeuSerIysGluTyrTrpAspCysLeu 260
Db      454 GATATGAAAAGGAGGACAGAACCCCTGCGCAAGTGCACCAACCA-----410
Qy      261 GluGlyLysLysSerIysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAsp 280
Db      409 -----AAGCACACCCGAGAGGAGTCACTTATGGGAATTCATCCGAC 365
Qy      281 IleIleuLeuHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGly 300
Db      364 ATCTCTTGACCCACACACAGAACCCAGGATTTAATATGGAGACCCGACTCTGAGGC 305

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Qy	301	ValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTTPGlyGlnLysLysLysAsn	320
Db	304	GTCTTCAGGTCCTTGAATCAGAGCCAGTGGCTCAGCTATGGGTAATAAGAGAACACAC	245
Qy	321	SerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluIle	340
Db	244	AGCAGCATGACCTATGAAAGCTCAGCCGAGCTATGAGATATTACTACAAAAGAGAAATT	185
Qy	341	LeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGlyTyr	360
Db	184	CTGGAGCGTGCGATGGACCAAGACTGGTATATAAATTGGGAAGAATGCCCGAGGATGG	125
Qy	361	LysGluGluGlu	364
Db	124	AGAGAAATGAA	113

Search completed: February 12, 2004, 21:50:15
 Job time : 105.27 secs

7294	QY	---TCTCTGCGCCCTCTTGGAAATTACAAGCCCGGGTTGAACCACTTGT-----7341
1394	DB	CTCCCCACCCCTCTCTTGGAAATTACAAGCCCTGGGGTTGAAGCTGACTTTATAGCTGCA 1453
7342	QY	---TGGATAACTCTTCCAGCTGTGATTCACAGTTCCTCCCGTCCCAACATGGACTGCAAAT 7399
1454	DB	AGTGTATCTCTTTTATCTGGTGCCTCTCCAAACCCAGTCTCAGACACTTAAATTCGACAG 1513
7400	QY	GAGAC---CCACCTGCAGATGCTCGGCCCTCAGCCAAGAGAGGTGGGGAGACTGTGGCAGG 7456
1514	DB	AACACCTTCTCTCTGCAGACACTTGACATGAGCCAGAGAGGCTTGGAGGCCCT----AG 1569
7457	QY	AGACTGCAGGAGCGGAGGGAGCAGGGTTGTGTCTCGGTACTTC---CTGGACTGCCTTC 7513
1570	DB	GGAGACCCGTGATGGAGAGCAGACAGCGGGGCTCAGCACTTCTTTCTGACTGGCGTT 1629
7514	QY	CACCTCTTTGCTCAGTACTCAGAGCTCCACAGACGGGGTCCGATCA--TCCTTAATTTATG 7572
1630	DB	CACCTCCCTGCTCAGTCTTGGGCTCCAGGGCAGGGGTACAGAGACTTCCTCAATTTATG 1689
7573	QY	TGCTATA--AATATTCAGGTGTATATAGAGACTATTTTTTCTAAAGCACTTTCCCTCC 7630
1690	DB	TGCTATAAATATGTCCAGATGATACATAGAGATCTATTTTTCTTAAACACTTCCCTCCC 1749
7631	QY	CTGCTCTCTTCCACTGAGTGCTGG 7654
1750	DB	CACCTCCTCTCCACAGAGTCTGG 1773

```

RESULT 2
US-09-570-593-4
; Sequence 4, Application US/09570593
; Patent No. 6566063
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Xin, Hong
; APPLICANT: Harrowe, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (96)...(1211)
; OTHER INFORMATION: Human epithelial-restricted with serine
; OTHER INFORMATION: protein.
US-09-570-593-4

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7179	GA	CAGG	CAGG	CCTG	AC	GGC	CCCC	CTTA	AC	TGAT	GTGT	TCC	TGTG	TGCT	GTAG	AG	7238	
1275	GA	CAGG	CAGG	CC	CAG	ATGG	-	CCC	TCC	AT	TGGG	GAAT	CTCC	CACT	TGCT	TGTGG	AG	1333
7239	GA	AA	CA	CTGT	TGGG	CGCT	GC	CT	TGC	-	-	AG	TC	CTCA	AG	GTGC	AG	7293
1334	AG	CT	GA	TG	T	T	T	T	T	T	T	T	T	T	T	T	T	1393
7294	-	-	T	C	T	C	T	G	C	C	C	T	T	T	T	T	T	7344
1394	CT	CC	CA	CC	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	1453	
7342	-	-	T	C	G	A	A	A	C	T	T	C	T	C	C	A	T	7399
1454	AG	T	G	T	A	T	C	T	C	T	T	T	T	T	T	T	T	1513
7400	G	A	G	A	C	-	-	-	C	A	C	T	G	A	G	A	G	7456
1514	A	A	C	A	C	T	T	T	C	T	C	A	G	A	C	A	T	1569
7457	AG	A	C	T	G	C	A	G	G	A	G	G	A	C	A	G	G	7513
1570	G	A	G	C	A	C	G	T	G	A	T	G	A	G	A	G	A	1629
7514	C	A	C	T	C	T	T	T	G	C	T	A	G	A	G	T	C	7572
1630	C	A	C	T	C	C	T	C	A	G	T	T	G	G	C	T	C	1689
7573	T	G	C	T	A	-	-	A	A	T	T	C	C	A	G	G	T	7630
1690	T	G	C	T	A	T	A	T	A	T	G	T	C	A	G	A	T	1749
7631	C	T	G	C	T	C	T	C	A	C	T	G	T	G	T	G	-	7654
1750	C	A	C	T	C	T	C	C	A	G	A	G	T	G	T	G	-	1773

RESULT 3
US-08-746-789A-1
; Sequence 1, Application US/08746789A
; Patent No. 5789200
; GENERAL INFORMATION:
; APPLICANT: Ismail Kola, Martin J. Tyums, Christine DeBouck
; TITLE OF INVENTION: A No. 5789200el Human EFS Family Member, ELF3
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road, P.O. Box 1539
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
; COMPUTER: IBM 486
; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
; SOFTWARE: MICROSOFT WORD
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/746,789A
; FILING DATE: No. 5789200ember 15, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: William T. Han
; REGISTRATION NUMBER: 34,344
; REFERENCE/DOCKET NUMBER: ATG 50024
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610 270 5219
; TELEFAX: 610 270 4026
; INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
 LENGTH: 1920
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear
 ANTI-SENSE: No
 US-08-746-789A-1

Query Match 2.8%; Score 215.6; DB 1; Length 1920;
 Best Local Similarity 65.6%; Pred. No. 3e-49;
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY	6999	AGGTATTACTACAAACGGGAGATCTCTGGAACCGGTGGATGGCGGCGGTCTGTCTACAG	7058
Db	1114	AGGTACTACTACAAACGGGAGATCTCTGGAACCGGTGGATGGCGGCGGTCTGTCTACAG	1173
QY	7059	TTTGGCAAGAACTCTAGTGGCTCGAAGGAGAGAGGTTGGAGAGTCCGAAATTAAAGA	7118
Db	1174	TTTGGCAAAACTCTAGTGGCTCGAAGGAGAGAGGTTCTCCAGAGTCCGAACTGAGGG	1233
QY	7119	TCGGGGGTGGACCCGAGACCTGACTCAGGCATGAACCTCCAGAACTGAAGCCTTCTCTGAA	7178
Db	1234	TTGGAACATAACCGGGACCAAACTCAGGACCACTCGAGGCTCGAAACCTTCTCTGGA	1293
QY	7179	GGACAGCGGCTGACGGCCCTTAAACATGATGTTCCTGTGTTGCTGTAGAGAG	7238
Db	1294	GGACAGCGGCTGACGGCTTAAACATGATGTTCCTGTGTTGCTGTAGAGAG	1352
QY	7239	GAAGAACTCTTGGGGTGGCCCTCTGC---AGTCTCTCAAGTGCAGCCTTTGGCTC--	7293
Db	1353	AGGTGATGTTTGGTGTATTGTTCAGCCATCTGCTGGGACTCGGAGACTATGGCTCGC	1412
QY	7294	--TCTCTCTGCTCTTGGAAATTACAGCCCGGGTTTGAACCAACTTCTTGA	7345
Db	1413	CTCCCCACCTCTCTTGGAAATTACAGCCCGGGTTTGAAGCTGACTTATAGCTGCA	1472
QY	7346	-----TAACCTCTCCAGCTGTGATTCAGTTCCTCCCGTCCCAAGATGACCTGCAA	7397
Db	1473	AGTGTATCTCTTATCTGCTGCTCTCTCAACCCAGTCTAGACACTAATATGACAGA	1532
QY	7398	ATGAGACCCACCTGAGATGCTGGCTCAGCAAGAGGCTGGGGAGACTGTGGCAGGA	7457
Db	1533	ACACCTCTCTCTGACACACTGGAAGTGGCTGAGCAGGAGGCTGGG--GAGGCGCTAGG	1590
QY	7458	GACTGACGAGGAGGAGGAGGCTGTGCTCTCG---TACTTCTGGACTGCTTC	7513
Db	1591	GAGCAGCTGATGAGAGGAGGAGGCTGCTCTCG---TACTTCTGGACTGCTTC	1650
QY	7514	CACCTCTTCTCAGTACTCAGGCTCCACAGAGGCGGCTCGGATCA--TCCTAATTATG	7572
Db	1651	CACCTCTCTCAGTCTGCTGGCTCCACGCGGAGGCTCAGGACTCTCTAATTATG	1710
QY	7573	TGC--TATAAATATTCAGGTGTATATAGAGACTATTTTCTAAAGCAATTTCCTCC	7630
Db	1711	TGCTATATAAATATGTCAGATGTATATAGAGACTATTTTCTAAAGCAATTTCCTCC	1770
QY	7631	CTGCTCTTCTCCACTGAGTCTG 7654	
Db	1771	CATCTCTCTCCACAGAGTCTG 1794	

RESULT 4

US-09-389-681-282
 ; Sequence 282, Application US/09389681A
 ; Patent No. 5519237
 ; GENERAL INFORMATION:
 ; APPLICANT: Yuqin, Jiang
 ; APPLICANT: Dillon, Devin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Xu, Jiangchun
 ; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
 ; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
 ; FILE REFERENCE: 210121.470C8

; CURRENT APPLICATION NUMBER: US/09/389,681A
 ; CURRENT FILING DATE: 1999-09-02
 ; NUMBER OF SEQ ID NOS: 463
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 282
 ; LENGTH: 502
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-389-681-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;
 Best Local Similarity 88.9%; Pred. No. 2.9e-35;
 Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY	6256	GCCCCAGAGTACTACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC	6315
Db	258	GGCCCGAGAGGACCCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC	317
QY	6316	AACGAAGGCTCTAAGTGGGAGAACCGGACAGGGTGTGTTCAAGTTTCTTCGCTCA	6375
Db	318	AACGAGGCGCTCATGAAGTGGGAGATCGGCATGAGGCGTCTTCAAGTTTCTTCGCTCC	377
QY	6376	GAGCCCTGGCCCAACTCTGGGCGGAGAGAGAACAGCAACATGACCTATGAGAAG	6435
Db	378	GAGCTGTGGCCCAACTATGGGCGGAGAGAGAGAACAGCAACATGACCTATGAGAAG	437
QY	6436	CTGAGCCGAGCCATGAGGT 6454	
Db	438	CTGAGCCGAGCCATGAGGT 456	

RESULT 5

US-09-620-405B-282
 ; Sequence 282, Application US/09620405B
 ; Patent No. 6528054
 ; GENERAL INFORMATION:
 ; APPLICANT: Jiaog, Yudi
 ; APPLICANT: Dillon, Devin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Hepler, William T.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
 ; FILE REFERENCE: 210121.470C8
 ; CURRENT APPLICATION NUMBER: US/09/620,405B
 ; CURRENT FILING DATE: 2000-07-20
 ; NUMBER OF SEQ ID NOS: 495
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 282
 ; LENGTH: 502
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-620-405B-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;
 Best Local Similarity 88.9%; Pred. No. 2.9e-35;
 Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY	6256	GCCCCAGAGTACTACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC	6315
Db	258	GGCCCGAGAGGACCCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC	317
QY	6316	AACGAAGGCTCTAAGTGGGAGAACCGGACAGGGTGTGTTCAAGTTTCTTCGCTCA	6375
Db	318	AACGAGGCGCTCATGAAGTGGGAGATCGGCATGAGGCGTCTTCAAGTTTCTTCGCTCC	377
QY	6376	GAGCCCTGGCCCAACTCTGGGCGGAGAGAGAACAGCAACATGACCTATGAGAAG	6435
Db	378	GAGCTGTGGCCCAACTATGGGCGGAGAGAGAGAACAGCAACATGACCTATGAGAAG	437
QY	6436	CTGAGCCGAGCCATGAGGT 6454	

Db 438 CTGAGCCGGCCATGAGGT 456

RESULT 6

US-09-339-338-282
; Sequence 282, Application US/09339338A

; Patent No. 6573368

; GENERAL INFORMATION:

; APPLICANT: Yuqiu, Jiang

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.470C2

; CURRENT APPLICATION NUMBER: US/09/339,338A

; CURRENT FILING DATE: 1999-06-23

; NUMBER OF SEQ ID NOS: 315

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-339-338-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;

Best Local Similarity 88.9%; Pred. No. 2.9e-35; Indels 0; Gaps 0;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 6256 GCCCCAGAGGTACTCACCCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGACATCTTCATCCACCCGAGCTC 317

QY 6316 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGTTGTTCAGTTTCTTCGCTCA 6375

Db 318 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGTTGTTCAGTTTCTTCGCTCC 377

QY 6376 GAGGCGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 6435

Db 378 GAGGCTGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 437

QY 6436 CTGAGCCGGCCATGAGGT 6454

Db 438 CTGAGCCGGCCATGAGGT 456

RESULT 7

US-09-433-826B-282

; Sequence 282, Application US/09433826B

; Patent No. 6579973

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.470C4

; CURRENT APPLICATION NUMBER: US/09/433,826B

; CURRENT FILING DATE: 1999-11-03

; NUMBER OF SEQ ID NOS: 474

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-433-826B-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;

Best Local Similarity 88.9%; Pred. No. 2.9e-35; Indels 0; Gaps 0;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 6256 GCCCCAGAGGTACTCACCCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGACATCTTCATCCACCCGAGCTC 317

QY 6316 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGTTGTTCAGTTTCTTCGCTCA 6375

Db 318 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGTTGTTCAGTTTCTTCGCTCC 377

QY 6376 GAGGCGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 6435

Db 378 GAGGCTGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 437

QY 6436 CTGAGCCGGCCATGAGGT 6454

Db 438 CTGAGCCGGCCATGAGGT 456

RESULT 8

US-09-604-287A-282

; Sequence 282, Application US/09604287A

; Patent No. 6586572

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Hepler, William T.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER

; FILE REFERENCE: 210121.470C7

; CURRENT APPLICATION NUMBER: US/09/604,287A

; CURRENT FILING DATE: 2000-06-22

; NUMBER OF SEQ ID NOS: 489

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-604-287A-282

Query Match

Best Local Similarity 2.1%; Score 163.8; DB 4; Length 502;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 6256 GCCCCAGAGGTACTCACCCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGACATCTTCATCCACCCGAGCTC 317

QY 6316 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGTTGTTCAGTTTCTTCGCTCA 6375

Db 318 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGTTGTTCAGTTTCTTCGCTCC 377

QY 6376 GAGGCGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 6435

Db 378 GAGGCTGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 437

QY 6436 CTGAGCCGGCCATGAGGT 6454

Db 438 CTGAGCCGGCCATGAGGT 456

RESULT 9

US-09-016-434-927

; Sequence 927, Application US/09016434

; Patent No. 6500938

; GENERAL INFORMATION:

; APPLICANT: Janice Au-Young

; APPLICANT: Jeffrey J. Seihamer

; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING

; TITLE OF INVENTION: PATHWAY GENE EXPRESSION

; NUMBER OF SEQUENCES: 1490

; CORRESPONDENCE ADDRESS:


```
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-44

Query Match
Best Local Similarity 1.5%; Score 115.4; DB 3; Length 852;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCGAGGCTACTCAGCTGGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317
Db 401 CCCGAGGCTACTCAGCTGGGAGTTTATCCGAGACATCTCTTGAACCCAGACAAGAA 342
QY 6318 CGAAGGCTCATGAAGTGGGAGAACCGGACGAGGGTGTCTTCAAGTTTCTTCGCTCAGA 6377
Db 341 CCCAGGATTATAAATGGGAGCCGATCTGAGGGGCTCTTCAAGTTTCTTGAATCAGA 282
QY 6378 GGCCGTGGCCCAACTCTGGGGCCAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGCT 6437
Db 281 GGCAAGTGGCTCAGCTATGGGGTAAAAAGAAAGAAAGAAAGAAAGAAAGCT 222
QY 6438 GAGCCGAGCCATGAGGT 6454
Db 221 CAGCCGAGCTATGAGAT 205

RESULT 13
US-09-439-313-44/c
; Sequence 44, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc feature
; LOCATION: (1)-(852)
; OTHER INFORMATION: n = A,T,C or G
US-09-439-313-44

Query Match 1.5%; Score 115.4; DB 4; Length 852;
Best Local Similarity 74.1%; Pred. No. 1.1e-21;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCGAGGCTACTCAGCTGGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317
Db 401 CCCGAGGCTACTCAGCTGGGAGTTTATCCGAGACATCTCTTGAACCCAGACAAGAA 342
QY 6318 CGAAGGCTCATGAAGTGGGAGAACCGGACGAGGGTGTCTTCAAGTTTCTTCGCTCAGA 6377
Db 341 CCCAGGATTATAAATGGGAGCCGATCTGAGGGGCTCTTCAAGTTTCTTGAATCAGA 282
QY 6378 GGCCGTGGCCCAACTCTGGGGCCAGAAAGAAAGAAAGAAAGAAAGAAAGCT 6437
Db 281 GGCAAGTGGCTCAGCTATGGGGTAAAAAGAAAGAAAGAAAGAAAGAAAGCT 222
QY 6438 GAGCCGAGCCATGAGGT 6454
Db 221 CAGCCGAGCTATGAGAT 205

RESULT 14
US-09-352-616A-44/c
; Sequence 44, Application US/09352616A
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; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-44

Query Match
Best Local Similarity 1.5%; Score 115.4; DB 3; Length 852;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCGAGGCTACTCAGCTGGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317
Db 401 CCCGAGGCTACTCAGCTGGGAGTTTATCCGAGACATCTCTTGAACCCAGACAAGAA 342
QY 6318 CGAAGGCTCATGAAGTGGGAGAACCGGACGAGGGTGTCTTCAAGTTTCTTCGCTCAGA 6377
Db 341 CCCAGGATTATAAATGGGAGCCGATCTGAGGGGCTCTTCAAGTTTCTTGAATCAGA 282
QY 6378 GGCCGTGGCCCAACTCTGGGGCCAGAAAGAAAGAAAGAAAGAAAGAAAGCT 6437
Db 281 GGCAAGTGGCTCAGCTATGGGGTAAAAAGAAAGAAAGAAAGAAAGAAAGCT 222
QY 6438 GAGCCGAGCCATGAGGT 6454
Db 221 CAGCCGAGCTATGAGAT 205

RESULT 12
US-09-030-607-44/c
; Sequence 44, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 852 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-030-607-44

Query Match 1.5%; Score 115.4; DB 3; Length 852;
Best Local Similarity 74.1%; Pred. No. 1.1e-21;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCGAGGCTACTCAGCTGGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317
```


Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(852)
; OTHER INFORMATION: n = A,T,C or G
US-09-352-616A-44

Query Match 1.5%; Score 115.4; DB 4; Length 852;
Best Local Similarity 74.1%; Pred. No. 1.1e-21;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;
QY 6258 CCCGAGGAGTACTCAGCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317
DB 401 CCCGAGGAGGACTCACTTATGGGAATTCATCCCGACATCCTCTTGAACCCGAGCAAGAA 342
QY 6318 CGAAGGCTCATGAAGTGGGAGAACCGGCGACGAGGGTGTGTTCAAGTTTCTTCGCTCAGA 6377
DB 341 CCCAGATTATAAATGGGAAGACCGATCTGAGGGCGTCTTCAGGTTCTTGAATCAGA 282
QY 6378 GGCCTGGCCCAACTCTGGGGCCAGAGAGAGACGACATGACCTATGAGAAGCT 6437
DB 281 GCGAGTGGCTCAGCTATGGGTAAAGAGAGACACGACGACGATGACCTATGAGAAGCT 222
QY 6438 GAGCCGAGCCATGAGGT 6454
DB 221 CAGCCGAGCTATGAGAT 205

RESULT 15
US-09-232-149A-44/c
; Sequence 44, Application US/09232149A
; Patent No. 6465611
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(852)
; OTHER INFORMATION: n = A,T,C or G
US-09-232-149A-44

Query Match 1.5%; Score 115.4; DB 4; Length 852;
Best Local Similarity 74.1%; Pred. No. 1.1e-21;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCGAGGAGTACTCAGCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317
DB 401 CCCGAGGAGGACTCACTTATGGGAATTCATCCCGACATCCTCTTGAACCCGAGCAAGAA 342
QY 6318 CGAAGGCTCATGAAGTGGGAGAACCGGCGACGAGGGTGTGTTCAAGTTTCTTCGCTCAGA 6377
DB 341 CCCAGATTATAAATGGGAAGACCGATCTGAGGGCGTCTTCAGGTTCTTGAATCAGA 282
QY 6378 GGCCTGGCCCAACTCTGGGGCCAGAGAGACGACATGACCTATGAGAAGCT 6437
DB 281 GCGAGTGGCTCAGCTATGGGTAAAGAGAGACACGACGACGATGACCTATGAGAAGCT 222
QY 6438 GAGCCGAGCCATGAGGT 6454
DB 221 CAGCCGAGCTATGAGAT 205

Search completed: February 13, 2004, 01:55:04
Job time : 448.897 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 12, 2004, 21:46:16 ; Search time 1.20792 Seconds
(without alignments)
7673.534 Million cell updates/sec

Title: US-08-978-217-14

Perfect score: 21

Sequence: 1 GTACCTCATGCCCGCTCAG 21

Scoring table: IDENTITY NUC

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Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA: *
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6: /cgn2_6/ptodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
C 1	21	100.0	237	4	US-09-016-434-927 Sequence 927, App
C 2	21	100.0	502	4	US-09-389-681-282 Sequence 282, App
C 3	21	100.0	502	4	US-09-620-405B-282 Sequence 282, App
C 4	21	100.0	502	4	US-09-339-338-282 Sequence 282, App
C 5	21	100.0	502	4	US-09-433-826B-282 Sequence 282, App
C 6	21	100.0	502	4	US-09-604-287A-282 Sequence 282, App
C 7	21	100.0	1307	4	US-09-300-958A-27 Sequence 27, App
C 8	21	100.0	1907	4	US-09-570-593-4 Sequence 4, Appli
C 9	21	100.0	1320	1	US-08-746-789A-1 Sequence 1, Appli
C 10	16.4	78.1	5499	3	US-08-479-722B-1 Sequence 1, Appli
C 11	16.4	78.1	5502	5	PCT-US95-02251-17 Sequence 17, Appli
C 12	16.2	77.1	2266	2	US-09-213-767-1 Sequence 1, Appli
C 13	16.2	77.1	4403765	3	US-09-103-840A-2 Sequence 2, Appli
C 14	16.2	77.1	4403765	3	US-09-103-840A-2 Sequence 2, Appli
C 15	16.2	77.1	4411529	3	US-09-103-840A-1 Sequence 1, Appli
C 16	16.2	77.1	4411529	3	US-09-103-840A-1 Sequence 1, Appli
C 17	15.8	75.2	671	3	US-09-129-030-29 Sequence 29, Appli
C 18	15.8	75.2	1479	4	US-08-868-373-3 Sequence 3, Appli
C 19	15.8	75.2	1533	4	US-09-522-217-88 Sequence 88, Appli
C 20	15.8	75.2	2224	4	US-09-221-017B-384 Sequence 384, App
C 21	15.8	75.2	2877	4	US-09-619-353-1 Sequence 1, Appli
C 22	15.8	75.2	3072	4	US-09-522-217-55 Sequence 55, Appli
C 23	15.4	73.3	1935	4	US-09-495-050A-190 Sequence 190, App
C 24	15.2	72.4	848	3	US-09-009-913-338 Sequence 338, App
C 25	15.2	72.4	856	4	US-09-535-008-55 Sequence 55, Appli
C 26	15.2	72.4	2218	4	US-09-350-457A-1 Sequence 1, Appli
C 27	15.2	72.4	2385	3	US-08-352-902D-145 Sequence 145, App

C 28	15.2	72.4	2484	2	US-08-209-521-8 Sequence 8, Appli
C 29	15.2	72.4	2484	3	US-08-961-810-4 Sequence 4, Appli
C 30	15.2	72.4	2484	3	US-08-352-902D-4 Sequence 4, Appli
C 31	15.2	72.4	2484	4	US-09-265-503B-4 Sequence 4, Appli
C 32	15.2	72.4	2484	4	US-09-708-200-16 Sequence 16, Appli
C 33	15.2	72.4	2484	4	US-08-294-312B-1 Sequence 1, Appli
C 34	15.2	72.4	2525	4	US-08-468-024B-1 Sequence 1, Appli
C 35	15.2	72.4	2525	4	US-08-187-757D-1 Sequence 1, Appli
C 36	15.2	72.4	2525	4	US-08-469-412A-1 Sequence 1, Appli
C 37	15.2	72.4	2667	2	US-09-021-715-1 Sequence 1, Appli
C 38	15.2	72.4	2667	3	US-09-620-312D-240 Sequence 240, App
C 39	15.2	72.4	4953	4	US-09-333-593-5 Sequence 5, Appli
C 40	15.2	72.4	827	3	US-09-499-781-5 Sequence 5, Appli
C 41	15.2	72.4	827	3	US-09-333-599-1 Sequence 1, Appli
C 42	15.2	72.4	870	4	US-09-499-781-1 Sequence 1, Appli
C 43	14.8	70.5	778	3	US-08-998-416-220 Sequence 220, App
C 44	14.8	70.5	1021	3	US-09-095-117-5 Sequence 5, Appli
C 45	14.8	70.5	1030	3	US-09-095-117-7 Sequence 7, Appli

ALIGNMENTS

RESULT 1
US-09-016-434-927/c
; Sequence 927, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304

COMPUTER READABLE FORM: FLOPPY disk
MEDIUM TYPE: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/016,434
FILING DATE: HEREMITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US
TELEPHONE: (550) 855-0555
TELEFAX: (550) 845-4166
INFORMATION FOR SEQ ID NO: 927:
SEQUENCE CHARACTERISTICS:
LENGTH: 237 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: COLNCR01
CLONE: 773734
US-09-016-434-927

Query Match 100.0%; Score 21; DB 4; Length 237;
Best Local Similarity 100.0%; Pred. No. 0.3;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21
Db 55 GTACCTCATGGCCGGCTCAG 35

RESULT 2

US-09-389-681-282/c
; Sequence 282, Application US/09389681A
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yuqui, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C3
; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-389-681-282

Query Match 100.0%; Score 21; DB 4; Length 502;

Best Local Similarity 100.0%; Pred. No. 0.31;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21
Db 458 GTACCTCATGGCCGGCTCAG 438

RESULT 3

US-09-620-405B-282/c
; Sequence 282, Application US/09620405B
; Patent No. 6528054
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqui
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C8
; CURRENT APPLICATION NUMBER: US/09/620,405B
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-620-405B-282

Query Match 100.0%; Score 21; DB 4; Length 502;

Best Local Similarity 100.0%; Pred. No. 0.31;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21
Db 458 GTACCTCATGGCCGGCTCAG 438

RESULT 4

US-09-339-338-282/c

; Sequence 282, Application US/09339338A

; Patent No. 6573368

; GENERAL INFORMATION:

; APPLICANT: Yuqui, Jiang

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.470C2

; CURRENT APPLICATION NUMBER: US/09/339,338A

; CURRENT FILING DATE: 1999-06-23

; NUMBER OF SEQ ID NOS: 315

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-339-338-282

Query Match 100.0%; Score 21; DB 4; Length 502;

Best Local Similarity 100.0%; Pred. No. 0.31;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21
Db 458 GTACCTCATGGCCGGCTCAG 438

RESULT 5

US-09-433-826B-282/c

; Sequence 282, Application US/09433826B

; Patent No. 6579973

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqui

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.470C4

; CURRENT APPLICATION NUMBER: US/09/433,826B

; CURRENT FILING DATE: 1999-11-03

; NUMBER OF SEQ ID NOS: 474

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-433-826B-282

Query Match 100.0%; Score 21; DB 4; Length 502;

Best Local Similarity 100.0%; Pred. No. 0.31;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21
Db 458 GTACCTCATGGCCGGCTCAG 438

RESULT 6

US-09-604-287A-282/c

; Sequence 282, Application US/09604287A

; Patent No. 6586572

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqui

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Hepler, William T.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

NUMBER OF SEQ ID NOS: 13

Db 1119 GTACCTCATGGCCCGGCTCAG 10

RESULT 10

US-08-479-722B-1/c
 ; Sequence 1, Application US/08479722B
 ; Patent No. 6074840
 ; GENERAL INFORMATION:
 ; APPLICANT: Bonadio, Jeffrey
 ; APPLICANT: Yin, Wushan
 ; TITLE OF INVENTION: LATENT TGF(BINDING PROTEIN (LTBP)
 ; TITLE OF INVENTION: GENES, COMPOSITIONS AND METHODS
 ; NUMBER OF SEQUENCES: 13
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Williams, Morgan & Amerson
 ; STREET: 7676 Hillmont, Suite 250
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA
 ; ZIP: 77040
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/479,722B
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US PCT/US95/02251
 ; FILING DATE: 21-FEB-1995
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/316,650
 ; FILING DATE: 30-SEP-1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/199,780
 ; FILING DATE: 18-FEB-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Fussey, Shelley P.M.
 ; REGISTRATION NUMBER: 39,458
 ; REFERENCE/DOCKET NUMBER: 4100.000500/FUS
 ; TELEPHONE: (713) 934-7000
 ; TELEFAX: (713) 934-7011
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 5499 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; DESCRIPTION: /desc = "DNA"
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..5499
 ; US-08-479-722B-1

Query Match 78.1%; Score 16.4; DB 3; Length 5499;
 Best Local Similarity 94.4%; Pred. No. 49;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ACCTCATGCCCGGCTCA 20
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 Db 3158 ACCTCATAGCCCGGCTCA 3141

RESULT 11

PCT-US95-02251-17/c
 ; Sequence 17, Application PC/TUS9502251
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR STIMULATING BONE
 ; TITLE OF INVENTION: CELLS
 ; NUMBER OF SEQUENCES: 18
 ; CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: United States of America
 ZIP: 77210
 COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
 ; SOFTWARE: Patent In Release #1.0, Version
 ; SOFTWARE: #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US95/02251
 ; FILING DATE: CONCURRENTLY HERewith
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/316,650
 ; FILING DATE: 30-SEP-1994
 ; CLASSIFICATION:
 ; APPLICATION NUMBER: US 08/199,780
 ; FILING DATE: 18-FEB-1994
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Parker, David L.
 ; REGISTRATION NUMBER: 32,165
 ; REFERENCE/DOCKET NUMBER: UMIC009P--
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (512) 418-3000
 ; TELEFAX: (713) 789-2679
 ; TELEX: 79-0924
 ; INFORMATION FOR SEQ ID NO: 17:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 5502 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: other nucleic acid
 ; DESCRIPTION: /desc = "DNA"
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..5502
 ; PCT-US95-02251-17

Query Match 78.1%; Score 16.4; DB 5; Length 5502;
 Best Local Similarity 94.4%; Pred. No. 49;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ACCTCATGCCCGGCTCA 20
 |||||
 Db 3158 ACCTCATAGCCCGGCTCA 3141

RESULT 12

US-09-213-767-1/c
 ; Sequence 1, Application US/09213767
 ; Patent No. 5948680
 ; GENERAL INFORMATION:
 ; APPLICANT: Brenda F. Baker
 ; APPLICANT: Lex M. Cowser
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF ELK-1 EXPRESSION
 ; FILE REFERENCE: RTS-0024
 ; CURRENT APPLICATION NUMBER: US/09/213,767
 ; CURRENT FILING DATE: 1998-12-17
 ; NUMBER OF SEQ ID NOS: 47
 ; SEQ ID NO 1
 ; LENGTH: 2266
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (316)..(1602)
 ; US-09-213-767-1

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Query Match      77.1%; Score 16.2; DB 2; Length 2266;
Best Local Similarity 85.7%; Pred. No. 59;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21
Db 513 GTACCGCAAGGCCCGGCTGAG 493

RESULT 13
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      77.1%; Score 16.2; DB 3; Length 4403765;
Best Local Similarity 85.7%; Pred. No. 54;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21
Db 4316894 GGACCTGATGGCCCGGCTCGG 4316914

RESULT 14
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      77.1%; Score 16.2; DB 3; Length 4403765;
Best Local Similarity 85.7%; Pred. No. 54;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21
Db 513 GTACCGCAAGGCCCGGCTGAG 493

RESULT 15
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match      77.1%; Score 16.2; DB 3; Length 4411529;
Best Local Similarity 85.7%; Pred. No. 54;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21
Db 4324638 GGACCTGATGGCCCGGCTCGG 4324658

Search completed: February 13, 2004, 01:55:01
Job time : 20.2079 secs
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 12, 2004, 21:46:16 ; Search time 1.20792 Seconds
(without alignments)
7673.534 Million cell updates/sec

Title: US-08-978-217-13

Perfect score: 21 CCGGACATCTCTCCATCCACC 21
Sequence:

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:
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2: /cgn2_6/ptodata/1/ina/5B COMB.seq:
3: /cgn2_6/ptodata/1/ina/6A COMB.seq:
4: /cgn2_6/ptodata/1/ina/6B COMB.seq:
5: /cgn2_6/ptodata/1/ina/PTUS COMB.seq:
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	ID	Description
1	21	100.0	4	US-09-389-681-282
2	21	100.0	4	US-09-620-405B-282
3	21	100.0	4	US-09-339-338-282
4	21	100.0	4	US-09-433-826B-282
5	21	100.0	4	US-09-604-287A-282
6	21	100.0	4	US-09-300-958A-27
7	21	100.0	4	US-09-570-593-4
8	21	100.0	1	US-08-746-789A-1
9	16.4	78.1	1086	US-09-328-352-99
10	16.2	77.1	165	US-08-456-647B-1
11	16.2	77.1	165	US-08-237-401A-1
12	16.2	77.1	361	US-09-643-597-303
13	16.2	77.1	361	US-09-480-884A-303
14	16.2	77.1	361	US-09-542-615A-303
15	16.2	77.1	361	US-09-606-421B-567
16	16.2	77.1	427	US-09-328-111-567
17	16.2	77.1	1228	US-08-826-246-9
18	16.2	77.1	1228	US-08-944-495-9
19	16.2	77.1	1228	US-09-126-640-5
20	16.2	77.1	1228	US-08-925-598-9
21	16.2	77.1	1228	US-09-288-292A-5
22	16.2	77.1	1228	US-09-372-044-9
23	16.2	77.1	1228	US-08-825-486-9
24	15.8	75.2	718	US-08-998-416-682
25	15.8	75.2	1362	US-09-252-991A-10470
26	15.8	75.2	1626	US-09-252-991A-10598
27	15.8	75.2	1684	US-09-620-312D-287

28	15.8	75.2	2190	4	US-09-252-991A-10256	Sequence 10256, A
29	15.2	72.4	492	4	US-09-252-991A-880	Sequence 880, App
30	15.2	72.4	510	4	US-09-252-991A-4285	Sequence 4285, App
31	15.2	72.4	636	4	US-09-702-705-1668	Sequence 1668, App
32	15.2	72.4	636	4	US-09-736-457-1668	Sequence 1668, App
33	15.2	72.4	1002	4	US-09-252-991A-11872	Sequence 11872, A
34	15.2	72.4	1026	4	US-09-129-033-1	Sequence 1, Appli
35	15.2	72.4	1068	4	US-09-252-991A-15054	Sequence 15054, A
36	15.2	72.4	1074	4	US-09-516-914-16	Sequence 16, Appli
37	15.2	72.4	1103	4	US-09-892-074-1	Sequence 1, Appli
38	15.2	72.4	1281	4	US-09-252-991A-856	Sequence 856, App
39	15.2	72.4	1320	3	US-08-461-775-8	Sequence 8, Appli
40	15.2	72.4	1320	2	US-09-031-606-8	Sequence 8, Appli
41	15.2	72.4	1464	4	US-09-252-991A-11508	Sequence 11508, A
42	15.2	72.4	1515	3	US-09-292-768-5	Sequence 5, Appli
43	15.2	72.4	1527	4	US-09-252-991A-815	Sequence 815, App
44	15.2	72.4	1620	2	US-08-461-775-10	Sequence 10, Appli
45	15.2	72.4	1620	3	US-09-031-606-10	Sequence 10, Appli

ALIGNMENTS

RESULT 1
US-09-389-681-282
; Sequence 282, Application US/09389681A
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yuqui, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C3
; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-389-681-282

Query Match 100.0%; Score 21; DB 4; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.92;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTCCATCCACC 21
Db 290 CCGGACATCTCTCCATCCACC 310

RESULT 2
US-09-620-405B-282
; Sequence 282, Application US/09620405B
; Patent No. 6528054
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqui
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C8
; CURRENT APPLICATION NUMBER: US/09/620,405B
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282

LENGTH: 502
TYPE: DNA
ORGANISM: Homo sapiens
US-09-620-405B-282

Query Match 100.0%; Score 21; DB 4; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.92;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21
DB 290 CCGGACATCTCTCATCCACC 310

RESULT 3

US-09-339-338-282
Sequence 282, Application US/09339338A
Patent No. 6573368
GENERAL INFORMATION:
APPLICANT: Yuqiu, Jiang
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Xu, Jiangchun
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.470C2
CURRENT APPLICATION NUMBER: US/09/339,338A
CURRENT FILING DATE: 1999-06-23
NUMBER OF SEQ ID NOS: 315
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 282
LENGTH: 502
TYPE: DNA
ORGANISM: Homo sapiens
US-09-339-338-282

Query Match 100.0%; Score 21; DB 4; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.92;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21
DB 290 CCGGACATCTCTCATCCACC 310

RESULT 4

US-09-433-826B-282
Sequence 282, Application US/09433826B
Patent No. 6579973
GENERAL INFORMATION:
APPLICANT: Jiang, Yuqiu
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Xu, Jiangchun
APPLICANT: Harlocker, Susan L.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.470C4
CURRENT APPLICATION NUMBER: US/09/433,826B
CURRENT FILING DATE: 1999-11-03
NUMBER OF SEQ ID NOS: 474
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 282
LENGTH: 502
TYPE: DNA
ORGANISM: Homo sapiens
US-09-433-826B-282

Query Match 100.0%; Score 21; DB 4; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.92;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21

DB 290 CCGGACATCTCTCATCCACC 310

RESULT 5

US-09-604-287A-282
Sequence 282, Application US/09604287A
Patent No. 6586572
GENERAL INFORMATION:
APPLICANT: Jiang, Yuqiu
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Xu, Jiangchun
APPLICANT: Harlocker, Susan L.
APPLICANT: Harlocker, William T.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C7
CURRENT APPLICATION NUMBER: US/09/604,287A
CURRENT FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 489
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 282
LENGTH: 502
TYPE: DNA
ORGANISM: Homo sapiens
US-09-604-287A-282

Query Match 100.0%; Score 21; DB 4; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.92;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21
DB 290 CCGGACATCTCTCATCCACC 310

RESULT 6

US-09-300-958A-27
Sequence 27, Application US/09300958A
Patent No. 6495319
GENERAL INFORMATION:
APPLICANT: McClelland, Michael
APPLICANT: Welsh, John
APPLICANT: Trenkle, Thomas
TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
TITLE OF INVENTION: Using Same
FILE REFERENCE: P-PH 3457
CURRENT APPLICATION NUMBER: US/09/300,958A
CURRENT FILING DATE: 1999-04-27
PRIOR APPLICATION NUMBER: 60/083,331
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/098,070
PRIOR FILING DATE: 1998-08-27
PRIOR APPLICATION NUMBER: 60/118,624
PRIOR FILING DATE: 1999-02-04
NUMBER OF SEQ ID NOS: 85
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 27
LENGTH: 1907
TYPE: DNA
ORGANISM: Homo sapiens
US-09-300-958A-27

Query Match 100.0%; Score 21; DB 4; Length 1907;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21
DB 932 CCGGACATCTCTCATCCACC 952

RESULT 7

US-09-570-593-4

; Sequence 4, Application US/09570593

; Patent No. 6566063

; GENERAL INFORMATION:

; APPLICANT: Kaufmann, Joerg

; APPLICANT: Kin, Hong

; APPLICANT: Harrowe, Greg

; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN

; TITLE OF INVENTION: CANCER

; FILE REFERENCE: 2300-1556

; CURRENT APPLICATION NUMBER: US/09/570,593

; CURRENT FILING DATE: 2000-05-12

; PRIOR APPLICATION NUMBER: 60/134,112

; PRIOR FILING DATE: 1999-05-14

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4

; LENGTH: 1907

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (96)...(1211)

; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)

; OTHER INFORMATION: Protein.

US-09-570-593-4

Query Match

Best Local Similarity 100.0%; Score 21; DB 4; Length 1907;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1 CCGGGACATCCTCATCCACCC 21

DB

932 CCGGGACATCCTCATCCACCC 952

RESULT 8

US-08-746-789A-1

; Sequence 1, Application US/08746789A

; Patent No. 5789200

; GENERAL INFORMATION:

; APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck

; TITLE OF INVENTION: A No. 5789200e1 Human ETS Family Member, ELF3

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SmithKline Beecham Corporation

; STREET: 709 Swedeland Road, P.O. Box 1539

; CITY: King of Prussia

; STATE: PA

; COUNTRY: USA

; ZIP: 19406-0939

; COMPUTER READABLE FORM:

; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE

; COMPUTER: IBM 486

; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS

; SOFTWARE: MICROSOFT WORD

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/746,789A

; FILING DATE: NO. 5789200e1 15, 1996

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: William T. Han

; REGISTRATION NUMBER: 34,344

; REFERENCE/DOCKET NUMBER: ATG 50024

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 610 270 5219

; TELEFAX: 610 270 4026

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1920

; TYPE: Nucleic Acid

; STRANDEDNESS: Single

; TOPOLOGY: Linear

; ANTI-SENSE: No

US-08-746-789A-1

Query Match

Best Local Similarity 100.0%; Score 21; DB 1; Length 1920;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1 CCGGGACATCCTCATCCACCC 21

DB

951 CCGGGACATCCTCATCCACCC 971

RESULT 9

US-09-328-352-99/c

; Sequence 99, Application US/09328352

; Patent No. 6562958

; GENERAL INFORMATION:

; APPLICANT: Gary L. Breton et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: GTC99-03PA

; CURRENT APPLICATION NUMBER: US/09/328,352

; CURRENT FILING DATE: 1999-06-04

; NUMBER OF SEQ ID NOS: 8252

; SEQ ID NO 99

; LENGTH: 1086

; TYPE: DNA

; ORGANISM: Acinetobacter baumannii

US-09-328-352-99

Query Match

Best Local Similarity 94.4%; Score 16.4; DB 4; Length 1086;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY

4 GGACATCCTCATCCACCC 21

DB

75 GGACATCCTCATCCACCC 58

RESULT 10

US-08-456-647B-1/c

; Sequence 1, Application US/08456647B

; Patent No. 5811516

; GENERAL INFORMATION:

; APPLICANT: Lemke Ph.D. et al., Greg E.

; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES

; NUMBER OF SEQUENCES: 54

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.

; STREET: 4225 Executive Square, Suite 1400

; CITY: La Jolla

; STATE: CA

; COUNTRY: US

; ZIP: 92037

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/456,647B

; FILING DATE: 02-JUN-1995

; CLASSIFICATION: 530

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/237,401

; FILING DATE: 02-MAY-1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/884,486

; FILING DATE: 15-MAY-1992

```
; ATTORNEY/AGENT INFORMATION:
; NAME: Wetherell Ph.D., John R.
; REGISTRATION NUMBER: 31,678
; REFERENCE/DOCKET NUMBER: 07251/007002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 165 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; IMMEDIATE SOURCE:
; CLONE: Tyro-1
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..165
US-08-456-647B-1

Query Match 77.1%; Score 16.2; DB 1; Length 165;
Best Local Similarity 85.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CCGGGACATCTCTCATCCACC 21
Db 76 CCGGGTCATCTCTCAAGCACCC 56

RESULT 11
US-08-237-401A-1/c
; Sequence 1, Application US/08237401A
; Patent No. 5937448
; GENERAL INFORMATION:
; APPLICANT: Lemke Ph.D. et al., Greg E.
; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: US
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/237,401A
; FILING DATE: 02-MAY-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/884,486
; FILING DATE: 15-MAY-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile Ph.D., Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07251/007001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 165 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; MOLECULE TYPE: DNA
; IMMEDIATE SOURCE:
; CLONE: Tyro-1

; ATTORNEY/AGENT INFORMATION:
; NAME/KEY: CDS
; LOCATION: 1..165
US-08-237-401A-1

Query Match 77.1%; Score 16.2; DB 2; Length 165;
Best Local Similarity 85.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CCGGGACATCTCTCATCCACC 21
Db 76 CCGGGTCATCTCTCAAGCACCC 56

RESULT 12
US-09-643-597-303
; Sequence 303, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 303
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(361)
; OTHER INFORMATION: n = A, T, C or G
US-09-643-597-303

Query Match 77.1%; Score 16.2; DB 4; Length 361;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CCGGGACATCTCTCATCCACC 21
Db 257 CCGGGACGTCTCTCCACC 277

RESULT 13
US-09-480-884A-303
; Sequence 303, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 303
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(361)
; OTHER INFORMATION: n = A,T,C or G
US-09-480-884A-303

Query Match      77.1%; Score 16.2; DB 4; Length 361;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21
    ||||| ||||| ||||| |||||
Db 257 CCGGACGTCCTCCCCACC 277

RESULT 14
US-09-542-615A-303
; Sequence 303, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 303
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(361)
; OTHER INFORMATION: n = A,T,C or G
US-09-542-615A-303

Query Match      77.1%; Score 16.2; DB 4; Length 361;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21
    ||||| ||||| ||||| |||||
Db 257 CCGGACGTCCTCCCCACC 277

Search completed: February 13, 2004, 01:54:42
Job time : 2.20792 secs
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; SEQ ID NO 303
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(361)
; OTHER INFORMATION: n = A,T,C or G
US-09-480-884A-303

Query Match      77.1%; Score 16.2; DB 4; Length 361;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21
    ||||| ||||| ||||| |||||
Db 257 CCGGACGTCCTCCCCACC 277

RESULT 15
US-09-606-421B-303
; Sequence 303, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy R.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C9
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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 12, 2004, 19:34:21 ; Search time 4.03329 Seconds
(without alignments)
1750.959 Million cell updates/sec

Title: US-08-978-217-12

Perfect score: 84

Sequence: 1 KNSGKXBEVLQSRN 16

Scoring table: BLOSUM62

Xgapop 10.0, Xgapext 0.5

Ygapop 10.0, Ygapext 0.5

Fgapop 6.0, Fgapext 7.0

Delop 6.0, Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-Ds=Issued Patents NA -QFMT=fastap -SUFFIX=rmi -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US08978217 @CGN 1.1.115 @runat_10022004.133826.20481 -NCFU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents NA.*
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2: /cgn2_6/prodata/1/ina/5B.COMB.seq.*
3: /cgn2_6/prodata/1/ina/6A.COMB.seq.*
4: /cgn2_6/prodata/1/ina/6B.COMB.seq.*
5: /cgn2_6/prodata/1/ina/PCUS.COMB.seq.*
6: /cgn2_6/prodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	84	100.0	237	4	US-09-016-434-927 Sequence 927, Appl
2	84	100.0	463	4	US-09-300-958A-25 Sequence 25, Appl
3	84	100.0	1907	4	US-09-300-958A-27 Sequence 27, Appl
4	84	100.0	1907	4	US-09-570-593-4 Sequence 4, Appl
5	84	100.0	1920	1	US-08-746-789A-1 Sequence 1, Appl
6	46	54.8	1348	4	US-09-638-649-6 Sequence 6, Appl
7	46	54.8	8100	4	US-09-554-337-4 Sequence 4, Appl
8	46	54.8	11517	1	US-07-920-281C-1 Sequence 1, Appl
9	46	54.8	11517	3	US-08-466-277-1 Sequence 1, Appl
10	46	54.8	15538	4	US-09-554-337-1 Sequence 1, Appl
11	45	53.6	9993	4	US-09-464-535-25 Sequence 25, Appl
12	45	53.6	7492	4	US-09-299-141-5 Sequence 5, Appl

C 13	45	53.6	10627	1	US-08-060-925A-12 Sequence 12, Appl
C 14	44	52.4	2763	4	US-09-668-680-8 Sequence 8, Appl
C 15	44	52.4	3396	4	US-09-668-680-6 Sequence 6, Appl
C 16	44	52.4	3423	4	US-09-668-680-7 Sequence 7, Appl
C 17	44	52.4	50000	4	US-09-146-053-4 Sequence 4, Appl
C 18	43	51.2	4417	3	US-07-741-453A-57 Sequence 57, Appl
C 19	43	51.2	8543	3	US-08-496-944-1 Sequence 1, Appl
C 20	42	50.6	6396	4	US-09-620-312D-226 Sequence 226, App
C 21	42	50.0	694	2	US-08-537-400-15 Sequence 15, Appl
C 22	42	50.0	694	2	US-08-706-702-17 Sequence 17, Appl
C 23	42	50.0	694	3	US-08-706-702-17 Sequence 17, Appl
C 24	42	50.0	694	4	US-09-238-471-17 Sequence 17, Appl
C 25	42	50.0	1265	4	US-09-702-705-95 Sequence 95, Appl
C 26	42	50.0	1265	4	US-09-736-457-95 Sequence 95, Appl
C 27	42	50.0	1485	3	US-08-484-661A-38 Sequence 38, Appl
C 28	42	50.0	1485	3	US-08-556-664-38 Sequence 38, Appl
C 29	42	50.0	1485	5	PCT-US96-09641-38 Sequence 38, Appl
C 30	42	50.0	1716	3	US-08-484-661A-36 Sequence 36, Appl
C 31	42	50.0	1716	3	US-08-556-664-36 Sequence 36, Appl
C 32	42	50.0	1716	5	PCT-US96-09641-36 Sequence 36, Appl
C 33	42	50.0	1737	3	US-08-484-661A-10 Sequence 10, Appl
C 34	42	50.0	1737	3	US-08-556-664-10 Sequence 10, Appl
C 35	42	50.0	1737	5	PCT-US96-09641-10 Sequence 10, Appl
C 36	42	50.0	1769	3	US-09-257-584-6 Sequence 6, Appl
C 37	42	50.0	1833	3	US-08-484-661A-7 Sequence 7, Appl
C 38	42	50.0	1833	3	US-08-484-661A-15 Sequence 15, Appl
C 39	42	50.0	1833	3	US-08-484-661A-18 Sequence 18, Appl
C 40	42	50.0	1833	3	US-08-484-661A-22 Sequence 22, Appl
C 41	42	50.0	1833	3	US-08-484-661A-25 Sequence 25, Appl
C 42	42	50.0	1833	3	US-08-484-661A-28 Sequence 28, Appl
C 43	42	50.0	1833	3	US-08-484-661A-32 Sequence 32, Appl
C 44	42	50.0	1833	3	US-08-484-661A-34 Sequence 34, Appl
C 45	42	50.0	1833	3	US-08-556-664-7 Sequence 7, Appl

ALIGNMENTS

RESULT 1
US-09-016-434-927
; Sequence 927, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREMITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555

TELETYPE: (650) 845-4166
INFORMATION FOR SEQ ID NO: 927:
SEQUENCE CHARACTERISTICS:
LENGTH: 237 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: COLNCR01
CLONE: 773734
US-09-016-434-927

Alignment Scores:	9.19e-07	Length:	237
Pred. No.:		Matches:	16
Score:	84.00	Conservative:	0
Percent Similarity:	100.00%	Mismatches:	0
Best Local Similarity:	100.00%	Indels:	0
Query Match:	100.00%	Gaps:	0
DB:	4		

US-08-978-217-12 (1-16) x US-09-016-434-927 (1-237)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db 116 AAAAAGCTCAAGCGGCTGAAGGAGGAGAGGTTTCTCCAGACTCGGAAC 163

RESULT 2

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US09-300958A-25
Sequence 25, Application US/09300958A
Patent No. 6495319
GENERAL INFORMATION:
APPLICANT: McClelland, Michael
APPLICANT: Welsh, John
APPLICANT: Wenkle, Thomas
TITLE OF INVENTION: Reduced Complexity
FILE REFERENCE: P-PH 3457
CURRENT APPLICATION NUMBER: US/09/300958A
CURRENT FILING DATE: 1999-04-27
PRIOR APPLICATION NUMBER: 60/083,333
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/098,077
PRIOR FILING DATE: 1998-08-27
PRIOR APPLICATION NUMBER: 60/118,621
PRIOR FILING DATE: 1999-02-04
NUMBER OF SEQ ID NOS: 85
SOFTWARE: Patent Ver. 2.0
SEQ ID NO 25
LENGTH: 463

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Alignment Scores:
Pred. No.: 2.03e-06
Score: 84.00
Length: 483
Matches: 16
Conservative: 0
Mismatch: 0
Best Local Similarity: 100.00%
Query Match: 100.00%
DB: 4
Gaps: 0

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US-08-978-217-12 (1-16) x US-09-300-958A-25 (1-463)

QY 1 LysAsnSerSerGlyTyrLysGluGluValIeuGlnSerArgAsn 16
Db 8 AAAAATCTCAGCGGCTGGAGGAGGAGGTTCTCAGAGTCGGAAC 55

RESULT 3

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US/09-300-958A-27
; Sequence 27, Application US/09300958A
; Patent No. 6495319
; GENERAL INFORMATION:
; APPLICANT: McClelland, Michael
; APPLICANT: Welsh, John
; APPLICANT: Trenkle, Thomas
; TITLE OF INVENTION: Reduced Complexity Nuc
; TITLE OF INVENTION: Using Same
; FILE REFERENCE: P-PH 3457
; CURRENT APPLICATION NUMBER: US/09/300,958A
; CURRENT FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/083,331
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/098,070
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/118,624
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In Ver. 2.0

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Alignment Scores:	
Pred. No.:	1.09e-05
Score:	84.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	100.00%
DB:	4
Length:	1907
Matches:	16
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

US-08-978-217-12 (1-16) x US-09-300-958A-27 (1-1907)

QY 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Dp 1161 AAAAAGCTCAAGCGGCTGGAAGAGGAAGAGTTCCTCCAGAGTCGGAAC 1208

RESULT 4

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US-09-570-593-4
; Sequence 4, Application US/09570593
; Patent No. 656063
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Xin, Hong
; APPLICANT: Hartowe, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (96)....(1211)
; OTHER INFORMATION: Human epithelial-restricted with seri
; OTHER INFORMATION: protein.
US-09-570-593-4

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Alignment Scores:		
Pred. No.:	1.09e-05	Length:
Score:	84.00	Matches:
		16
		1907

Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-570-593-4 (1-1907)

QY 1 LysAnSerGlyTyrPlyGluGluValLeuGlnSerArgAsn 16
DB 1161 AAAAATCAAGCGCTGGAAGAGGAGAGGTTCTCCAGAGTCGGAAC 1208

RESULT 5
US-08-746-789A-1
; Sequence 1, Application US/08746789A
; Patent No. 5789200
; GENERAL INFORMATION:
; APPLICANT: Ismail Kola, Martin J. Tyums, Christine DeBouck
; TITLE OF INVENTION: A No. 5789200el Human BTS Family Member, ELF3
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road, P.O. Box 1539
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
; COMPUTER: IBM 486
; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
; SOFTWARE: MICROSOFT WORD
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/746,789A
; FILING DATE: NO. 5789200el 15, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: William T. Han
; REGISTRATION NUMBER: 34,344
; REFERENCE/DOCKET NUMBER: ATG 50024
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610 270 5219
; TELEFAX: 610 270 4026
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1920
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: NO
US-08-746-789A-1

Alignment Scores:
Pred. No.: 11e-05 Length: 1920
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 1 Gaps: 0

US-08-978-217-12 (1-16) x US-08-746-789A-1 (1-1920)

QY 1 LysAnSerGlyTyrPlyGluGluValLeuGlnSerArgAsn 16
DB 1180 AAAAATCAAGCGCTGGAAGAGGAGAGGTTCTCCAGAGTCGGAAC 1227

RESULT 6
US-09-638-649-6/c
; Sequence 6, Application US/09638649
; Patent No. 6563015
; GENERAL INFORMATION:

; APPLICANT: Stern, David M.
; APPLICANT: Schmidt, Ann Marie
; APPLICANT: Yan, Shi Du
; TITLE OF INVENTION: TRANSGENIC MICE OVER-EXPRESSING RECEPTOR FOR ADVANCED
; TITLE OF INVENTION: GLYCATION ENDPRODUCT (RAGE) AND MUTANT APP IN BRAIN AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 0575/62175
; CURRENT APPLICATION NUMBER: US/09/638,649
; CURRENT FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1348
; TYPE: DNA
; ORGANISM: Murine
US-09-638-649-6

Alignment Scores:
Pred. No.: 39.9 Length: 1348
Score: 46.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 54.76% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-638-649-6 (1-1348)

QY 2 AnSerGlyTyrPlyGluGlu 9
DB 275 AATTCAGTGGCTGGAAGAGGAG 252

RESULT 7
US-09-554-337-4
; Sequence 4, Application US/09554337
; Patent No. 6475780
; GENERAL INFORMATION:
; APPLICANT: Parrington, Mark
; APPLICANT: Li, Xiaomao
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES
; FILE REFERENCE: 1038-1042 MIS
; CURRENT APPLICATION NUMBER: US/09/554,337
; CURRENT FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/065,791
; PRIOR FILING DATE: 1997-11-14
; PRIOR APPLICATION NUMBER: PCT/CA98/01064
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; TYPE: DNA
; LENGTH: 8100
; ORGANISM: respiratory syncytial virus
US-09-554-337-4

Alignment Scores:
Pred. No.: 335 Length: 8100
Score: 46.00 Matches: 7
Percent Similarity: 85.71% Conservative: 5
Best Local Similarity: 50.00% Mismatches: 2
Query Match: 54.76% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-554-337-4 (1-8100)

QY 3 SerSerGlyTyrPlyGluGluValLeuGlnSerArgAsn 16
DB 397 GCCAATCGGCGGAGGAGGAGGTTCTCCAGAGTCGGAAC 438

RESULT 8
US-07-920-281C-1
; Sequence 1, Application US/07920281C
; Patent No. 5739026

GENERAL INFORMATION:
APPLICANT: Garoff, Henrik
TITLE OF INVENTION: DNA Expression Systems Based on
TITLE OF INVENTION: Alphaviruses
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Birch, Stewart, Kolasch & Birch
STREET: P.O. Box 747
CITY: Falls Church
STATE: Virginia
COUNTRY: USA
ZIP: 22040-0747
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/920,281C
FILING DATE: 13-AUG-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 828-103P
TELEPHONE: 703-241-1300
TELEFAX: 703-241-2848
TELEX: 248345
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 11517 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Semliki Forest Virus
FEATURE:
NAME/KEY: -
LOCATION: 1..11517
OTHER INFORMATION: /label= genome
OTHER INFORMATION: /note= "Semliki Forest Virus complete nucleotide
sequence, presented as a cloned DNA sequence; see
Figure 5."
FEATURE:
NAME/KEY: CDS
LOCATION: 87..7379
OTHER INFORMATION: /product= "SFV polyprotein"
US-07-920-281C-1
Alignment Scores:
Pred. No.: 509
Score: 46.00
Percent Similarity: 85.71%
Best Local Similarity: 50.00%
Query Match: 54.76%
DBs: 1
Length: 11517
Matches: 7
Conservative: 5
Mismatch: 2
Indels: 0
Gaps: 0

US-08-978-217-12 (1-16) x US-07-920-281C-1 (1-11517)
OY 3 SerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db 675 GCCAAACTGGCCGACGAGCGTGTACAGGCCAGGAC 716

RESULT 9

US-08-466-277-1
Sequence 1, Application US/08466277
Patent No. 6190666
GENERAL INFORMATION:
APPLICANT: Garoff, Henrik
TITLE OF INVENTION: DNA Expression Systems Based on
TITLE OF INVENTION: Alphaviruses
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Birch, Stewart, Kolasch & Birch
STREET: P.O. Box 747
CITY: Falls Church
STATE: Virginia
COUNTRY: USA
ZIP: 22040-0747
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,277
FILING DATE: 06-Jun-1995
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/920,281
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 828-103P
TELEPHONE: 703-241-1300
TELEFAX: 703-241-2848
TELEX: 248345
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 11517 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Semliki Forest Virus
FEATURE:
NAME/KEY: -
LOCATION: 1..11517
OTHER INFORMATION: /label= genome
OTHER INFORMATION: /note= "Semliki Forest Virus complete nucleotide
sequence, presented as a cloned DNA sequence; see
Figure 5."
FEATURE:
NAME/KEY: CDS
LOCATION: 87..7379
OTHER INFORMATION: /product= "SFV polyprotein"
US-08-466-277-1
Alignment Scores:
Pred. No.: 509
Score: 46.00
Percent Similarity: 85.71%
Best Local Similarity: 50.00%
Query Match: 54.76%
DBs: 3
Length: 11517
Matches: 7
Conservative: 5
Mismatch: 2
Indels: 0
Gaps: 0

US-08-978-217-12 (1-16) x US-08-466-277-1 (1-11517)
 Qy 3 SerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
 Db 675 GCACAACTGGCCGACGACGCGGTGTACAGCCGAGAAC 716

RESULT 10

US-09-554-337-1
 ; Sequence 1, Application US/09554337
 ; Patent No. 6475780
 ; GENERAL INFORMATION:
 ; APPLICANT: Parrington, Mark
 ; APPLICANT: Li, Xiaomao
 ; APPLICANT: Klein, Michel H.
 ; TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES
 ; FILE REFERENCE: 1038-1042 MIS
 ; CURRENT APPLICATION NUMBER: US/09/554,337
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/065,791
 ; PRIOR FILING DATE: 1997-11-14
 ; PRIOR APPLICATION NUMBER: PCT/CA98/01064
 ; PRIOR FILING DATE: 1998-11-13
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 15538
 ; TYPE: DNA
 ; ORGANISM: respiratory syncytial virus
 US-09-554-337-1

Alignment Scores:
 Pred. No.: 727 Length: 15538
 Score: 46.00 Matches: 7
 Percent Similarity: 85.71% Conservative: 5
 Best Local Similarity: 50.00% Mismatches: 2
 Query Match: 54.76% Indels: 0
 DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-554-337-1 (1-15538)
 Qy 3 SerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
 Db 3221 GCACAACTGGCCGACGACGCGGTGTACAGCCGAGAAC 3262

RESULT 11

US-09-464-535-25/c
 ; Sequence 25, Application US/09464535
 ; Patent No. 6545200
 ; GENERAL INFORMATION:
 ; APPLICANT: Farnodu, Omolayo O.
 ; APPLICANT: Cahoon, Rebecca E.
 ; APPLICANT: Sakai, Hajime
 ; APPLICANT: McConigle, Brian
 ; APPLICANT: Rafalski, J. Antoni
 ; TITLE OF INVENTION: STEROL BIOSYNTHETIC ENZYMES
 ; FILE REFERENCE: BB1306 US NA
 ; CURRENT APPLICATION NUMBER: US/09/464,535
 ; CURRENT FILING DATE: 1999-12-15
 ; EARLIER APPLICATION NUMBER: 60/112,555
 ; EARLIER FILING DATE: 1998-12-16
 ; NUMBER OF SEQ ID NOS: 44
 ; SOFTWARE: Microsoft Office 97
 ; SEQ ID NO 25
 ; LENGTH: 993
 ; TYPE: DNA
 ; ORGANISM: Glycine max
 US-09-464-535-25

Alignment Scores:
 Pred. No.: 41.8 Length: 993
 Score: 45.00 Matches: 9
 Percent Similarity: 78.57% Conservative: 2
 Best Local Similarity: 64.29% Mismatches: 3

Query Match: 53.57% Indels: 0
 DB: 4 Gaps: 0
 US-08-978-217-12 (1-16) x US-09-464-535-25 (1-993)
 Qy 2 AsnSerGlyTrpLysGluGluValLeuGlnSerArg 15
 Db 661 TCCAGCGCGGATGGCAATGATCATCAGGGTATTACATCCAGG 620

RESULT 12

US-09-299-141-5/c
 ; Sequence 5, Application US/09299141
 ; Patent No. 6461606
 ; GENERAL INFORMATION:
 ; APPLICANT: FLOTTE, TERENCE R.
 ; APPLICANT: SONG, SIHONG
 ; APPLICANT: BYRNE, BARRY J.
 ; APPLICANT: MORGAN, MICHAEL
 ; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY
 ; FILE REFERENCE: 4300.011800
 ; CURRENT APPLICATION NUMBER: US/09/299,141
 ; CURRENT FILING DATE: 1999-04-23
 ; EARLIER APPLICATION NUMBER: 60/083,025
 ; EARLIER FILING DATE: 1998-04-24
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5
 ; LENGTH: 7492
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:p43C-AT-IN
 US-09-299-141-5

Alignment Scores:
 Pred. No.: 460 Length: 7492
 Score: 45.00 Matches: 10
 Percent Similarity: 61.90% Conservative: 3
 Best Local Similarity: 47.62% Mismatches: 2
 Query Match: 53.57% Indels: 6
 DB: 4 Gaps: 1

US-08-978-217-12 (1-16) x US-09-299-141-5 (1-7492)

Qy 2 AsnSerGlyTrp-----LysGluGluValLeuGlnSerArg 15
 Db 813 ACAGCTCAGCGCTGTGACCACTTACCTTTAAGAGATGTATTCCACGAGCAAA 754
 Qy 16 Asn 16
 Db 753 AAC 751

RESULT 13

US-08-660-925A-12/c
 ; Sequence 12, Application US/08060925A
 ; Patent No. 5439824
 ; GENERAL INFORMATION:
 ; APPLICANT: Brantley, Mark
 ; APPLICANT: Laubach, Victor
 ; TITLE OF INVENTION: INCREASED EXPRESSION OF ALPHA-1
 ; TITLE OF INVENTION: ANTITRYPsin IN EXPRESSION VECTORS THROUGH THE INCLUSION OF
 ; TITLE OF INVENTION: INTRON II
 ; NUMBER OF SEQUENCES: 12
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: KNOBBE, MARTENS, OLSON AND BEAR
 ; STREET: 620 NEWPORT CENTER DRIVE SIXTEENTH FLOOR
 ; CITY: NEWPORT BEACH
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 92660
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/060,925A
FILING DATE: 06-MAY-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fuller, Michael L.
REGISTRATION NUMBER: 36,516
REFERENCE/DOCKET NUMBER: NIH040.001A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-235-8550
TELEFAX: 619-235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 10627 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-060-925A-12

Alignment Scores:
Pred. No.: 697
Score: 45.00
Percent Similarity: 61.90%
Best Local Similarity: 47.62%
Query Match: 53.57%
DB: 1

Length: 10627
Matches: 10
Conservative: 3
Mismatch: 2
Indels: 6
Gaps: 1

US-08-978-217-12 (1-16) x US-08-060-925A-12 (1-10627)

Qy 2 AsnSerSerGlyTrp-----LysGluGluGluValLeuGlnSerArg 15
Db 6394 AACAGCTCAGGCTGGTGGAGCAACCTTACCTTTAAAGAGATGCTAATTCACGAGCAAA 6335

Qy 16 Asn 16

Db 6334 AAC 6332

RESULT 14

US-08-668-680-8/c
Sequence 8, Application US/09668680
Patent No. 6436703

GENERAL INFORMATION:

APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Zhou, Ping
APPLICANT: Asundi, Vinod
APPLICANT: Zhang, Jie
APPLICANT: Wang, Jian-Rui
APPLICANT: Xu, Chongjun
APPLICANT: Dmanac, Radoje T.
TITLE OF INVENTION: No. 6436703el Nucleic Acids and
FILE REFERENCE: 790CIP2A

CURRENT APPLICATION NUMBER: US/09/668,680
PRIOR APPLICATION NUMBER: 09/649,167
PRIOR FILING DATE: 2000-09-22
PRIOR FILING DATE: 2000-08-23
PRIOR FILING DATE: 2000-03-31
NUMBER OF SEQ ID NOS: 13

SOFTWARE: pt_FL_genes Version 2.0
SEQ ID NO 8
LENGTH: 2763
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS

LOCATION: (180) (1742)
US-09-668-680-8

Alignment Scores:

Pred. No.: 212
Score: 44.00
Percent Similarity: 66.67%
Best Local Similarity: 53.33%
Query Match: 52.38%
DB: 4

Length: 2763
Matches: 8
Conservative: 2
Mismatch: 5
Indels: 0
Gaps: 0

US-08-978-217-12 (1-16) x US-09-668-680-8 (1-2763)

Qy 2 AsnSerSerGlyTrpLysGluGluGluValLeuGlnSerArgAsn 16
Db 1342 TCCAGCTCTGGTGGAGTCTTCTCTTCCAGCTCTAGAAAC 1298

RESULT 15

US-09-668-680-6/c
Sequence 6, Application US/09668680
Patent No. 6436703

GENERAL INFORMATION:

APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Zhou, Ping
APPLICANT: Asundi, Vinod
APPLICANT: Zhang, Jie
APPLICANT: Wang, Jian-Rui
APPLICANT: Xu, Chongjun
APPLICANT: Dmanac, Radoje T.
TITLE OF INVENTION: No. 6436703el Nucleic Acids and
FILE REFERENCE: 790CIP2A

CURRENT APPLICATION NUMBER: US/09/668,680
PRIOR APPLICATION NUMBER: 09/649,167
PRIOR FILING DATE: 2000-08-23
PRIOR FILING DATE: 2000-03-31
NUMBER OF SEQ ID NOS: 13

SOFTWARE: pt_FL_genes Version 2.0
SEQ ID NO 6

LENGTH: 3396

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (27) (2375)

US-09-668-680-6

Alignment Scores:

Pred. No.: 271
Score: 44.00
Percent Similarity: 66.67%
Best Local Similarity: 53.33%
Query Match: 52.38%
DB: 4

Length: 3396
Matches: 8
Conservative: 2
Mismatch: 5
Indels: 0
Gaps: 0

US-08-978-217-12 (1-16) x US-09-668-680-6 (1-3396)

Qy 2 AsnSerSerGlyTrpLysGluGluGluValLeuGlnSerArgAsn 16
Db 1975 TCCAGCTCTGGTGGAGTCTTCTCTTCCAGCTCTAGAAAC 1931

Search completed: February 12, 2004, 21:50:03
Job time : 9.03329 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run On: February 12, 2004, 19:34:21 ; Search time 21.1748 Seconds
(without alignments)
1750.959 Million cell updates/sec

Title: US-08-978-217-7

Perfect score: 445

Sequence: 1 NCALERLVFGPLDQLHA.....ELLDDGQASPYHFGSGAG 84

Scoring table:

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Xgapop 10.0 , Xgapext 0.5	
Ygapop 10.0 , Ygapext 0.5	
Fgapop 6.0 , Fgapext 7.0	
Delop 6.0 , Delext 7.0	

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-Q=/cgn2_1/USPTO.spool/US08978217/runat_10022004_133826_20481/app_query.fasta_1.1500
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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=ptc -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA.*
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5: /cgn2_6/ptodata/1/ina/PTCUS.COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	445	100.0	1907	4	US-09-300-958A-27
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3	445	100.0	1920	1	US-08-746-789A-1
4	73.5	16.5	624	4	US-09-252-991A-13629
5	73.5	16.5	801	4	US-09-252-991A-13919
6	72	16.2	521	4	US-09-404-879A-139
7	72	16.2	521	4	US-09-338-933-139
8	72	16.2	521	4	US-09-215-681-139
9	72	16.2	551	4	US-09-404-879A-92
10	72	16.2	551	4	US-09-338-933-92
11	72	16.2	551	4	US-09-215-681-92
12	72	16.2	555	4	US-09-404-879A-107

C 13	72	16.2	555	4	US-09-338-933-107	Sequence 107, Appl
C 14	72	16.2	555	4	US-09-215-681-107	Sequence 107, Appl
C 15	72	16.2	2301	1	US-08-306-691B-23	Sequence 23, Appl
C 16	72	16.2	2301	1	US-09-167-206-3	Sequence 3, Appl
C 17	72	16.2	2301	5	PCT-US93-06251-78	Sequence 78, Appl
C 18	71.5	16.1	3141	2	US-08-956-242-1	Sequence 1, Appl
C 19	71.5	16.1	3141	3	US-09-351-215-1	Sequence 1, Appl
C 20	67.5	15.2	1011	4	US-09-252-991A-7550	Sequence 7550, Ap
C 21	67.5	15.2	1062	4	US-09-252-991A-7788	Sequence 7788, Ap
C 22	66.5	14.9	534	4	US-09-252-991A-12113	Sequence 12113, A
C 23	66.5	14.9	624	4	US-09-252-991A-12252	Sequence 12252, A
C 24	66.5	14.9	849	4	US-09-252-991A-11100	Sequence 11100, A
C 25	66.5	14.9	852	4	US-09-252-991A-10964	Sequence 10964, A
C 26	66.5	14.9	1473	4	US-09-518-914-7	Sequence 7, Appl
C 27	66	14.8	1594	2	US-08-955-713-1	Sequence 1, Appl
C 28	66	14.8	4154	1	US-08-131-365B-37	Sequence 37, Appl
C 29	66	14.8	4154	2	US-08-668-133-37	Sequence 37, Appl
C 30	65.5	14.7	444	4	US-09-252-991A-7864	Sequence 7864, Ap
C 31	65.5	14.7	11282	4	US-09-754-250-3	Sequence 3, Appl
C 32	64.5	14.5	576	4	US-09-252-991A-7380	Sequence 7380, Ap
C 33	64.5	14.5	756	4	US-09-252-991A-7245	Sequence 7245, Ap
C 34	64.5	14.5	915	4	US-09-252-991A-7455	Sequence 7455, Ap
C 35	64.5	14.5	3546	1	US-08-162-809-9	Sequence 9, Appl
C 36	64.5	14.5	3591	1	US-08-162-809-13	Sequence 13, Appl
C 37	64.5	14.5	3807	1	US-08-357-598-1	Sequence 1, Appl
C 38	64.5	14.5	3807	2	US-09-003-289-1	Sequence 1, Appl
C 39	64.5	14.5	3807	5	PCT-US95-16435-1	Sequence 1, Appl
C 40	64	14.4	3805	4	US-09-220-132-9	Sequence 9, Appl
C 41	64	14.4	32207	2	US-08-770-379-20	Sequence 20, Appl
C 42	64	14.4	32207	3	US-08-757-668A-20	Sequence 20, Appl
C 43	64	14.4	32207	4	US-09-230-371A-20	Sequence 20, Appl
C 44	63.5	14.3	1575	4	US-09-134-001C-516	Sequence 516, App
C 45	63.5	14.3	3103	4	US-09-268-480-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1

US-09-300-958A-27
; Sequence 27, Application US/09300958A
; Patent No. 6495319

GENERAL INFORMATION:

APPLICANT: McClelland, Michael

APPLICANT: Welsh, John

APPLICANT: Trenkle, Thomas

TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
; FILE REFERENCE: P-PH 3457

CURRENT APPLICATION NUMBER: US/09/300,958A

PRIOR FILING DATE: 1999-04-27

PRIOR APPLICATION NUMBER: 60/083,331

PRIOR FILING DATE: 1998-04-27

PRIOR APPLICATION NUMBER: 60/098,070

PRIOR FILING DATE: 1998-08-27

PRIOR APPLICATION NUMBER: 60/118,624

PRIOR FILING DATE: 1999-02-04

NUMBER OF SEQ ID NOS: 85

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 27

LENGTH: 1907

TYPE: DNA

ORGANISM: Homo sapiens

US-09-300-958A-27

Alignment Scores:

Pred. No.:

Score: 9.25e-51

Percent Similarity: 445.00

Best Local Similarity: 100.00%

Query Match: 100.00%

DB: 4

Length: 1907

Matches: 84

Conservative: 0

Mismatches: 0

Indels: 0

Gaps: 0

US-08-978-217-7 (1-84) x US-09-300-958A-27 (1-1907)

RESULT 3

COUNTRY: USA
ZTP: 19406-0939

US-08-078-217-2 (1-84) x US-08-746-789A-1 (1-1920)

Qy	1	AsnCysA	LaLeuGluGluLeuA	PhedGlyProLeuGlyAspGlnLeuHis	A	20
Db	424	AAATGTGGCCCTT	GAGGAGCTCGCTGGCTCTTTGGGGCTCTGGGGGACCAAC	TCCATGCC		483
Qy	21	GlnLeuA	qAspLeuThrSerSerSer	SerAspGluLeuSerTrp	lelleGluLeuLeu	40
Db	484	CAGCTGGGAGACCT	CACCTCCAGCTCTCTTGATGAGCTCAGTTGGATCATTGAGCTGCTG			543
Qy	41	GluLysAspGly	WeAlaPhedGlnLalLeuA	AspProGlyProPheAspGlnGly	Ser	60
Db	544	GAGAGAGATGG	CATGCTTCAGGAGCCCTTACACCGAGGCCCTTTTGACCCAGGGCAGC			603
Qy	61	PropheAla	glnGluLeuA	AspGlyGlnGlnAla	SerProTyrHisProGly	80


```

; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-404-879A-92

Alignment Scores:
Pred. No.: 0.657
Score: 72.00
Percent Similarity: 39.81%
Best Local Similarity: 30.10%
Indels: 31
Gaps: 5

US-08-978-217-7 (1-84) x US-09-404-879A-92 (1-551)
QY 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 354 GAGTTCATCTTTTTCATCTTTTAAAGCGCGGTTTTCATCACTTTCATACCTTTCATACCTCTCTC 295
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42
Db 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCCAGCTTTTTCAGGGC 250
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 249 AGTGGCCAGGCGCTCTTGAGCAGCGTCCAGCTCTTCTTCAACCAGCTGGATCTACGGTT 190
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeuLeu 67
Db 189 CAAGGAGGCCACCTCAGCCTGTTCGCGGCGCGCTTTCTCCCT-CAACTTCTC 131
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80
Db 130 GCTGAGGCGGTCTGAGCTGCTCTCTGTCATCACTGCTGCTGTCGAGAACCTGGATCT 71
QY 81 CysGlyAla 83
Db 70 TGGCGTTCA 62

RESULT 11
US-09-215-681-92/c
; Sequence 92, Application US/09215681A
; Patent No. 6528253
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Prudakis, Tony N.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSIS
; TITLE OF INVENTION: OF OVARIAN CANCER
; FILE REFERENCE: 210121.463
; CURRENT APPLICATION NUMBER: US/09/215.681A
; CURRENT FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 310
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-215-681-92

Alignment Scores:
Pred. No.: 0.657
Score: 72.00
Percent Similarity: 39.81%
Best Local Similarity: 30.10%
Indels: 31
Gaps: 5

US-08-978-217-7 (1-84) x US-09-215-681-92 (1-551)
QY 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 354 GAGTTCATCTTTTTCATCTTTTAAAGCGCGGTTTTCATCACTTTCATACCTTTCATACCTCTCTC 295
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42
Db 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCCAGCTTTTTCAGGGC 250
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 249 AGTGGCCAGGCGCTCTTGAGCAGCGTCCAGCTCTTCTTCAACCAGCTGGATCTACGGTT 190
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeuLeu 67
Db 189 CAAGGAGGCCACCTCAGCCTGTTCGCGGCGCGCTTTCTCCCT-CAACTTCTC 131
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80
Db 130 GCTGAGGCGGTCTGAGCTGCTCTCTGTCATCACTGCTGCTGTCGAGAACCTGGATCT 71
QY 81 CysGlyAla 83
Db 70 TGGCGTTCA 62

RESULT 10
US-09-338-933-92/c
; Sequence 92, Application US/09338933
; Patent No. 6488931
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer Lynn
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
; TITLE OF INVENTION: OVARIAN CANCER
; FILE REFERENCE: 210121.462C1
; CURRENT APPLICATION NUMBER: US/09/338.933
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-338-933-92

Alignment Scores:
Pred. No.: 0.657
Score: 72.00
Percent Similarity: 39.81%
Best Local Similarity: 30.10%
Indels: 31
Gaps: 5

US-08-978-217-7 (1-84) x US-09-338-933-92 (1-551)
QY 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 354 GAGTTCATCTTTTTCATCTTTTAAAGCGCGGTTTTCATCACTTTCATACCTTTCATACCTCTCTC 295
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42
Db 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCCAGCTTTTTCAGGGC 250
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 249 AGTGGCCAGGCGCTCTTGAGCAGCGTCCAGCTCTTCTTCAACCAGCTGGATCTACGGTT 190
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeuLeu 67
Db 189 CAAGGAGGCCACCTCAGCCTGTTCGCGGCGCGCTTTCTCCCT-CAACTTCTC 131
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80
Db 130 GCTGAGGCGGTCTGAGCTGCTCTCTGTCATCACTGCTGCTGTCGAGAACCTGGATCT 71
QY 81 CysGlyAla 83
Db 70 TGGCGTTCA 62

RESULT 10
US-09-338-933-92/c
; Sequence 92, Application US/09338933
; Patent No. 6488931
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer Lynn
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
; TITLE OF INVENTION: OVARIAN CANCER
; FILE REFERENCE: 210121.462C1
; CURRENT APPLICATION NUMBER: US/09/338.933
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-338-933-92

Alignment Scores:
Pred. No.: 0.657
Score: 72.00
Percent Similarity: 39.81%
Best Local Similarity: 30.10%
Indels: 31
Gaps: 5

US-08-978-217-7 (1-84) x US-09-338-933-92 (1-551)
QY 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 354 GAGTTCATCTTTTTCATCTTTTAAAGCGCGGTTTTCATCACTTTCATACCTTTCATACCTCTCTC 295
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42
Db 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCCAGCTTTTTCAGGGC 250
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 249 AGTGGCCAGGCGCTCTTGAGCAGCGTCCAGCTCTTCTTCAACCAGCTGGATCTACGGTT 190
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeuLeu 67
Db 189 CAAGGAGGCCACCTCAGCCTGTTCGCGGCGCGCTTTCTCCCT-CAACTTCTC 131
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80
Db 130 GCTGAGGCGGTCTGAGCTGCTCTCTGTCATCACTGCTGCTGTCGAGAACCTGGATCT 71
QY 81 CysGlyAla 83
Db 70 TGGCGTTCA 62

RESULT 10
US-09-338-933-92/c
; Sequence 92, Application US/09338933
; Patent No. 6488931
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer Lynn
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
; TITLE OF INVENTION: OVARIAN CANCER
; FILE REFERENCE: 210121.462C1
; CURRENT APPLICATION NUMBER: US/09/338.933
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-338-933-92

Alignment Scores:
Pred. No.: 0.657
Score: 72.00
Percent Similarity: 39.81%
Best Local Similarity: 30.10%
Indels: 31
Gaps: 5

US-08-978-217-7 (1-84) x US-09-338-933-92 (1-551)
QY 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 354 GAGTTCATCTTTTTCATCTTTTAAAGCGCGGTTTTCATCACTTTCATACCTTTCATACCTCTCTC 295
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42
Db 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCCAGCTTTTTCAGGGC 250
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 249 AGTGGCCAGGCGCTCTTGAGCAGCGTCCAGCTCTTCTTCAACCAGCTGGATCTACGGTT 190
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeuLeu 67
Db 189 CAAGGAGGCCACCTCAGCCTGTTCGCGGCGCGCTTTCTCCCT-CAACTTCTC 131
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80
Db 130 GCTGAGGCGGTCTGAGCTGCTCTCTGTCATCACTGCTGCTGTCGAGAACCTGGATCT 71
QY 81 CysGlyAla 83
Db 70 TGGCGTTCA 62

RESULT 10
US-09-338-933-92/c
; Sequence 92, Application US/09338933
; Patent No. 6488931
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer Lynn
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
; TITLE OF INVENTION: OVARIAN CANCER
; FILE REFERENCE: 210121.462C1
; CURRENT APPLICATION NUMBER: US/09/338.933
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-338-933-92

Alignment Scores:
Pred. No.: 0.657
Score: 72.00
Percent Similarity: 39.81%
Best Local Similarity: 30.10%
Indels: 31
Gaps: 5

US-08-978-217-7 (1-84) x US-09-338-933-92 (1-551)
QY 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 354 GAGTTCATCTTTTTCATCTTTTAAAGCGCGGTTTTCATCACTTTCATACCTTTCATACCTCTCTC 295
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42
Db 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCCAGCTTTTTCAGGGC 250
QY
```


QY 81 CysGlyAla 83
|||
Db 70 TGCCTTCA 62

RESULT 12

US-09-404-879A-107/c

; Sequence 107, Application US/09404879A
; Patent No. 6468546
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon E.
; APPLICANT: Algate, Paul A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.462C2
; CURRENT APPLICATION NUMBER: US/09-404.879A
; CURRENT FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 333
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 107
; LENGTH: 555
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-404-879A-107

Alignment Scores:
Pred. No.: 0.663 Length: 555
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
Gaps: 4
DB:

US-08-978-217-7 (1-84) x US-09-404-879A-107 (1-555)

QY 6 GluleuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
|||
Db 358 GAGTTCATCTTTCTTCATCTTTTAAGCCCGGTTTCAATAACCTTCATCTCTC 299
|||
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleleGluLeuGluLys 42
|||
Db 298 ACTCTCATCAGCAGCTTTTCAGC-----TTCCTCCAGCTTTTCAGGCG 254
|||
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
|||
Db 253 AGTGCCAGGCGCTCTGAGCAGCGTCCAGCTCTTCTCAACAGCTGGATCTACGGTT 194
|||
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeu 67
|||
Db 193 CAAGGAGGCCACCTCAGCCTCAGCTGTTCGCCGCCGCTTTCTCCCT-CAACTTCTC 135
|||
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80
|||
Db 134 GCTGGAGCGCTCAGCTCGCTCTCTCATCTGCTGTGTGTCGAGAACCTGGATCT 75
|||
QY 81 CysGlyAla 83
|||
Db 74 TGCCTTCA 66

RESULT 13

US-09-338-933-107/c

; Sequence 107, Application US/09338933
; Patent No. 648931
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer Lynn
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
; FILE REFERENCE: 210121.462C1
; CURRENT APPLICATION NUMBER: US/09/338,933
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 107
; LENGTH: 555
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-338-933-107

Alignment Scores:

Pred. No.: 0.663 Length: 555
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
Gaps: 5
DB:

US-08-978-217-7 (1-84) x US-09-338-933-107 (1-555)

QY 6 GluleuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
|||
Db 358 GAGTTCATCTTTCTTCATCTTTTAAGCCCGGTTTCAATAACCTTCATCTCTC 299
|||
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleleGluLeuGluLys 42
|||
Db 298 ACTCTCATCAGCAGCTTTTCAGC-----TTCCTCCAGCTTTTCAGGCG 254
|||
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
|||
Db 253 AGTGCCAGGCGCTCTGAGCAGCGTCCAGCTCTTCTCAACAGCTGGATCTACGGTT 194
|||
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeu 67
|||
Db 193 CAAGGAGGCCACCTCAGCCTCAGCTGTTCGCCGCCGCTTTCTCCCT-CAACTTCTC 135
|||
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80
|||
Db 134 GCTGGAGCGCTCAGCTCGCTCTCTCATCTGCTGTGTGTCGAGAACCTGGATCT 75
|||
QY 81 CysGlyAla 83
|||
Db 74 TGCCTTCA 66

RESULT 14

US-09-215-681-107/c

; Sequence 107, Application US/09215681A
; Patent No. 6528253
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Frudakis, Tony N.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSIS
; FILE REFERENCE: 210121.463
; CURRENT APPLICATION NUMBER: US/09/215,681A
; CURRENT FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 310
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 107
; LENGTH: 555
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-215-681-107

Alignment Scores:

Pred. No.: 0.663 Length: 555
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
Gaps: 5
DB:

US-08-978-217-7 (1-84) x US-09-215-681-107 (1-555)

QY 6 GluleuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
|||
|||

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 12, 2004, 21:46:16 ; Search time 14,4951 Seconds
(without alignments)
7673.534 Million cell updates/sec

Title: US-08-978-217-6

Perfect score: 252

Sequence: 1 AATTGTCCTTGAGGAGCT.....CCGCGAGCTGTGGCGCAGGA 252

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:**

1: /cgn2_6/prodata/1/ina/5A COMB.seq:**
2: /cgn2_6/prodata/1/ina/5B COMB.seq:**
3: /cgn2_6/prodata/1/ina/6A COMB.seq:**
4: /cgn2_6/prodata/1/ina/6B COMB.seq:**
5: /cgn2_6/prodata/1/ina/PCUS COMB.seq:**
6: /cgn2_6/prodata/1/ina/backfiles1.seq:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	252	100.0	1907	4	US-09-300-958A-27
2	252	100.0	1907	4	US-09-570-593-4
3	252	100.0	1920	1	US-08-746-789A-1
4	38.9	15.5	276	4	US-09-313-294A-3437
5	38.8	15.4	5173	1	US-08-242-677-1
6	36.2	14.4	741	4	US-09-252-991A-12066
7	36.2	14.4	918	4	US-09-252-991A-12009
8	36.2	14.4	1650	4	US-09-252-991A-8097
9	36.2	14.4	2145	4	US-09-252-991A-8205
10	35	13.9	1975	2	US-08-852-743-1
11	35	13.9	1975	3	US-09-185-370-1
12	35	13.9	2161	2	US-08-712-709-4
13	35	13.9	2161	3	US-09-111-444-4
14	35	13.9	2161	3	US-09-541-228-4
15	34.8	13.8	821	4	US-09-252-991A-8781
16	34.8	13.8	821	4	US-09-252-991A-8092
17	34.8	13.8	1512	4	US-09-252-991A-9180
18	34.8	13.8	1533	4	US-09-252-991A-9180
19	34.8	13.8	1758	4	US-09-252-991A-8895
20	34.6	13.7	6972	4	US-09-595-684B-38
21	34.6	13.7	8309	4	US-09-620-312D-1083
22	34	13.5	3141	2	US-08-956-242-1
23	34	13.5	3141	3	US-09-351-215-1
24	33.6	13.4	2128	4	US-09-620-312D-197
25	33.6	13.3	618	4	US-09-252-991A-7654
26	33.6	13.3	744	4	US-09-252-991A-7749
27	33.6	13.3	798	4	US-09-252-991A-7739

28	33.2	13.2	921	4	US-09-252-991A-1415	Sequence 1415, Ap
29	33.2	13.2	1206	4	US-09-252-991A-16406	Sequence 16406, A
30	33.2	13.2	1983	4	US-09-252-991A-16300	Sequence 16300, A
31	33	13.1	1107	4	US-09-252-991A-3936	Sequence 3936, Ap
32	33	13.1	1134	4	US-09-252-991A-3908	Sequence 3908, Ap
33	33	13.1	1217	4	US-09-594-669-11	Sequence 11, Appl
34	33	13.1	1304	4	US-09-594-669-9	Sequence 9, Appl
35	33	13.1	1326	4	US-09-252-991A-4002	Sequence 4002, Ap
36	33	13.1	1420	4	US-09-594-669-7	Sequence 7, Appl
37	32.8	13.0	1317	4	US-09-160-036-2	Sequence 2, Appl
38	32.8	13.0	1335	4	US-09-252-991A-15421	Sequence 15421, A
39	32.8	13.0	1392	4	US-09-160-036-11	Sequence 11, Appl
40	32.8	13.0	1645	4	US-09-620-312D-807	Sequence 807, App
41	32.8	13.0	1875	4	US-09-252-991A-5054	Sequence 5054, Ap
42	32.8	13.0	1962	4	US-09-252-991A-5020	Sequence 5020, Ap
43	32.8	13.0	2295	4	US-09-252-991A-5162	Sequence 5162, Ap
44	32.8	13.0	2352	4	US-09-252-991A-15532	Sequence 15532, A
45	32.8	13.0	2916	4	US-09-252-991A-15259	Sequence 15259, A

ALIGNMENTS

RESULT 1

US-09-300-958A-27

; Sequence 27, Application US/09300958A

; Patent No. 6495319

; GENERAL INFORMATION:

; APPLICANT: McClelland, Michael

; APPLICANT: Welsh, John

; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of

; FILE REFERENCE: P-PH 3457

; CURRENT APPLICATION NUMBER: US/09/300,958A

; PRIOR FILING DATE: 1999-04-27

; PRIOR APPLICATION NUMBER: 60/083,331

; PRIOR FILING DATE: 1998-04-27

; PRIOR APPLICATION NUMBER: 60/098,070

; PRIOR FILING DATE: 1998-08-27

; PRIOR APPLICATION NUMBER: 60/118,624

; PRIOR FILING DATE: 1999-02-04

; NUMBER OF SEQ ID NOS: 85

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 27

; LENGTH: 1907

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-300-958A-27

Query Match 100.0%; Score 252; DB 4; Length 1907;
Best Local Similarity 100.0%; Pred. No. 5e-59;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	AATTGTCCTTGAGGAGCTGTGGCTCTGTCCTTTGGGCTCTGGGGACCACTCCATGCC	60
Db	405	AATTGTCCTTGAGGAGCTGTGGCTCTGTCCTTTGGGCTCTGGGGACCACTCCATGCC	464
Qy	61	CAGCTGGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTG	120
Db	465	CAGCTGGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTG	524
Qy	121	GAGAGGATGGATGGCCCTTCCAGGAGGCCCTTAGACCCAGGGCCCTTTGACCCAGGGCAGC	180
Db	525	GAGAGGATGGATGGCCCTTCCAGGAGGCCCTTAGACCCAGGGCCCTTTGACCCAGGGCAGC	584
Qy	181	CCCTTTGCCAGGAGCTGTGGAGCGGTGAGCAGCCCTTACACCCCGGCGCAGC	240
Db	585	CCCTTTGCCAGGAGCTGTGGAGCGGTGAGCAGCCCTTACACCCCGGCGCAGC	644
Qy	241	TGTGGGCGCAGGA	252
Db	645	TGTGGGCGCAGGA	656

Query Match 15.5%; Score 39; DB 4; Length 276;
Best Local Similarity 49.3%; Pred. No. 0.07;
Matches 102; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 42 GGGGGACCAACTCCATGCGCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAG 101
DB 60 GTTGGAGCCACTGCTGCGGAGTCTCTCCAGCGCTTCTCCATGTTCCCGATCCCGTTCCC 119
QY 102 TTGATCATTTGAGCTGCTGCGAGAGGATGCGCTTCCAGGAGGCGCTAGACCCAGG 161
DB 120 GCGATCTGGAGTCTTCAAGAGGCGTGGCGTCTTCTGAGCGCGGAGGAGTTGA 179
QY 162 GCGCTTTGACGAGGCGCCCTTTCCAGGAGTGTGCGAGCGCTGAGCAAGCCAG 221
DB 180 CTTCTGCGGCGCGCGCACTGGGAGCGGCTGTCCCGGAGCGGCGCTTCTTCCAT 239
QY 222 CCCTACCAACCGCGGAGTGTGGCG 248
DB 240 CTTCACTGCTCGCTTCTTGGCGC 266

RESULT 5

US-08-242-677-1/c
; Sequence 1, Application US/08242677
; Patent No. 5677143
; GENERAL INFORMATION:
; APPLICANT: Gaynor, Richard B
; APPLICANT: Wu, Foon W.
; TITLE OF INVENTION: Cellular Nucleic Acid Binding Protein
; TITLE OF INVENTION: and Uses thereof in regulating Gene Expression and in the
; TITLE OF INVENTION: Treatment of AIDS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/242,677
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mayfield, Denise L.
; REGISTRATION NUMBER: 33,732
; REFERENCE/DOCKET NUMBER: UTSD:401
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-789-2679
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5173 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..4863

US-08-242-677-1

Query Match 15.4%; Score 38.8; DB 1; Length 5173;
Best Local Similarity 50.5%; Pred. No. 0.16;
Matches 94; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 48 CCACTCCATGCGCGGAGGACCTCACTTCCAGTCTTCTGATGAGTCACTGAT 107

DB 193 CCACCTCGCGCGCGCTCGGAGAGCGCGCTCGCCCCCGCTGCGCGCGGCTCTCTCT 134
QY 108 CATTGAGCTCTGCGAAGGATGGCATGGCTTCCAGAGGCGCCCTAGACCCAGGGCCCTT 167
DB 133 CTTGAGCGCGCTCAGAGGAGCGGAGCGTCTCCAGCGCTCCGCGGATGCGCTCCCTT 74
QY 168 TGACCAAGGCGAGCCCTTTGCGGAGGCTGTGAGAGCGGTGAGAGCCAGCCCTTA 227
DB 73 GGCACAGCGCGCCCAAGCAGGCGCGCGGCTCCCGCTCTGCGAGAGCAGCGTTCCGCGA 14
QY 228 CCACCC 233
DB 13 GCACCC 8

RESULT 6

US-09-252-991A-12066
; Sequence 12066, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 12066
; LENGTH: 741
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-12066

Query Match 14.4%; Score 36.2; DB 4; Length 741;
Best Local Similarity 47.6%; Pred. No. 0.51;
Matches 107; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

QY 16 GAGCTGCGTCTGCTTTTGGGCGCTCTGGGGAGCAACTCCATGCCCGAGTGGAGACCTC 75
DB 29 GAGCGCTTCTCGCGCGCGCGCGCGCGCTGGAACCTGGACCTGCGCTGTGTACCTG 88
QY 76 ACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTTGATGCTGCTGGAGAGGATGGCATG 135
DB 89 AACACAGTTCGATCAAGCGCATGATGACATCTCTGACCTGTGAGAGGCGCCACAG 148
QY 136 GCCTTCCAGGAGCGCCCTAGACCCAGGCGCCCTTTGACAGGCGAGCCCTTTTGGCCAGAG 195
DB 149 GCGCGTCCCGGTCAGCGCTGCGTGGCACTAGACCGCGGCAACGAAACGCGTCCGCGAG 208
QY 196 CTGTTGAGCGGTGAGCGAGCGCCCTTACACCCCGGCGAGC 240
DB 209 CTGCGCGAGGAGTTCCCGGAGGACTGCAGTCTCCCTCTTCCCATC 253

RESULT 7

US-09-252-991A-12009
; Sequence 12009, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 12009
; LENGTH: 918
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-12009

Query Match 14.4%; Score 36.2; DB 4; Length 918;
Best Local Similarity 47.6%; Pred. No. 0.53;
Matches 107; Conservative 0; Mismatches 118; Indels 0; Gaps 0;
QY 16 GAGCTGCGTCTGCTTTGGCCCTTGGGGACCAATCCATGCCAGCTGCGAGACCTC 75
DB 676 GAGCGCTTCTCGCGCGCGGACCGCGCTGGAATGGACCTGCGCCCTGCTGTACCTG 735
QY 76 ACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTCAGTCTGCTGGAGAGGATGCGATG 135
DB 736 AACACCACTTCATCAAGCCCATGATGGACATCTCTGACTGCTCGAGAGGCCACACAG 795
QY 136 GCTTCCAGAGGCGCTAGACCCAGGCGCTTTGACAGGCGAGCCCTTTGCCCCAGGAG 195
DB 796 GCGCGTGGCGGCTGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 855
QY 196 CTGCTGACAGCGCTGACGAGCGAGCGCCCTTACACACCGCGGAGC 240
DB 856 CTGCGCGAGGATTCGCGGAGGACTGCGACTTCCCTTCCGCTATC 900

RESULT 8

US-09-252-991A-8097/c
; Sequence 8097, Application US/09252991A
; Patent No. 6551795

GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 8097

; LENGTH: 1650

; TYPE: DNA

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-8097

Query Match 14.4%; Score 36.2; DB 4; Length 1650;
Best Local Similarity 47.9%; Pred. No. 0.62;
Matches 104; Conservative 0; Mismatches 113; Indels 0; Gaps 0;
QY 7 GCGCTTACGAGCTGCTGCTTTGGCCCTTGGGGACCAATCCATGCCAGCTGCGAGCTG 66
DB 657 GCGCATGTAGCGCGCGCTGACGCGCGGACGCGGCTGCTGCTGCTGCTGCTGCTGCTG 598
QY 67 CGAGACTCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTCAGTCTGCTGGAGAG 126
DB 597 CCAGCCCTTGGCGCGCGCTCAACCGGCGATCTCGCGCGGCGGCGGCGGCGGCGGAA 538
QY 127 GATGGCATGCGCTTCCAGGAGGCGCTAGACCCAGGCGCTTTGACAGGCGGCGGCGGCGG 186
DB 537 GCGCAGGTGGTGTGCGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 478
QY 187 GCCCAGAGCTGCTGGACGAGGCTCAGCAGCGAGCC 223
DB 477 CTCGTAGACGCGGCGGAGACCAACGATGACTTCC 441

RESULT 9

US-09-252-991A-8205

; Sequence 8205, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 8205

; LENGTH: 2145

; TYPE: DNA

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-8205

Query Match 14.4%; Score 36.2; DB 4; Length 2145;
Best Local Similarity 47.9%; Pred. No. 0.66;
Matches 104; Conservative 0; Mismatches 113; Indels 0; Gaps 0;
QY 7 GCGCTTACGAGCTGCTGCTTTGGCCCTTGGGGACCAATCCATGCCAGCTGCGAGCTG 66
DB 1516 GCGCATGTAGCGCGCGCTGACGCGCGGACGCGGCTGCTGCTGCTGCTGCTGCTGCTG 1575
QY 67 CGAGACTCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTCAGTCTGCTGGAGAG 126
DB 1576 CCAGCCCTTGGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1635
QY 127 GATGGCATGCGCTTCCAGGAGGCGCTAGACCCAGGCGCTTTGACAGGCGGCGGCGGCGG 186
DB 1636 GCGCAGGTGGTGTGCGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1695
QY 187 GCCCAGAGCTGCTGGACGAGCGGTCAGCAGCGAGCC 223
DB 1696 CTCGTAGACGCGGCGGAGACCAACGATGACTTCC 1732

RESULT 10

US-08-852-743-1

; Sequence 1, Application US/08852743

; Patent No. 5830699

; GENERAL INFORMATION:

; APPLICANT: Force, Thomas

; APPLICANT: Kyriakis, John M.

; APPLICANT: Pombo, Celia M.

; APPLICANT: Bonventre, Joseph

; TITLE OF INVENTION: SOK-1 AND METHODS OF USE

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson, P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: US

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: Windows95

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/852,743

; FILING DATE: 7-MAY-1997

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 60/016,774

; FILING DATE: 7-MAY-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Fraser, Janis K.

REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 00786/327001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1975 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 127...1404
US-08-852-743-1

Query Match 13.9%; Score 35; DB 2; Length 1975;
Best Local Similarity 48.3%; Pred. No. 1.4;
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCAACTCCATGCCAGCTCGGAGACCTCACTTCAGAGCTCTTCTGATGAGCTCAGTTGG 105
DB 175 GAGGAGCTCTTACCAAGCTCGACCCGATTTGGCAAGGCTCGTTTGGGAGGCTCTACAAG 234
QY 106 ATCATTCAGCTGTGGAGAGGATGGCATGCGCTTCCAGAGCTCTTCTGATGAGCTCAGTTGG 165
DB 235 GGCATCGATTAACACACAAAGAGGAGTGGTGGCCATCAAGATCATCATCGCTGGAGGAGGCC 294
QY 166 TTGACACAGGCGAGCCCTTTGCCAGGAGCTGTGGAGAGGCTGTGGAGAGGCTGTGGAGAGG 225
DB 295 GAGATGAGATGAGGAGATCCAGAGGAGATCACTGTCTCAGTCTGAGTGGAGAGCCGCC 354
QY 226 TACCACCCCGGAGCTGTGGCGC 248
DB 355 TACATCACCCGCTACTTTGGCTC 377

RESULT 11
US-08-185-370-1
Sequence 1, Application US/09185370
Patent No. 6093560
GENERAL INFORMATION:
APPLICANT: Force, Thomas
APPLICANT: Kyriakis, John M.
APPLICANT: Pombo, Celia M.
APPLICANT: Bonventre, Joseph
TITLE OF INVENTION: SOK-1 AND METHODS OF USE
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/185,370
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/952,743
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 00786/327001

TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1975 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 127...1404
US-09-185-370-1

Query Match 13.9%; Score 35; DB 3; Length 1975;
Best Local Similarity 48.3%; Pred. No. 1.4;
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCAACTCCATGCCAGCTCGGAGACCTCACTTCAGAGCTCTTCTGATGAGCTCAGTTGG 105
DB 175 GAGGAGCTCTTACCAAGCTCGACCCGATTTGGCAAGGCTCGTTTGGGAGGCTCTACAAG 234
QY 106 ATCATTCAGCTGTGGAGAGGATGGCATGCGCTTCCAGAGGCTCTTCTGATGAGCTCAGTTGG 165
DB 235 GGCATCGATTAACACACAAAGAGGAGTGGTGGCCATCAAGATCATCATCGCTGGAGGAGGCC 294
QY 166 TTGACACAGGCGAGCCCTTTGCCAGGAGCTGTGGAGAGGCTGTGGAGAGGCTGTGGAGAGG 225
DB 295 GAGATGAGATGAGGAGATCCAGAGGAGATCACTGTCTCAGTCTGAGTGGAGAGCCGCC 354
QY 226 TACCACCCCGGAGCTGTGGCGC 248
DB 355 TACATCACCCGCTACTTTGGCTC 377

RESULT 12
US-08-712-709-4
Sequence 4, Application US/08712709
Patent No. 5863780
GENERAL INFORMATION:
APPLICANT: Au-Young, Janice
APPLICANT: Guegler, Karl J.
APPLICANT: Hawkins, Phillip R.
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/712,709
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0118 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2161 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY:
CLONE: Consensus
US-08-712-709-4

Query Match 13.9%; Score 35; DB 2; Length 2161;
Best Local Similarity 48.3%; Pred. No. 1.4;
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCAATCCATGCCCCAGCTCGAGACCTCATTCCAGCTCTTCTGATGAGCTCAGTTGG 105
Db 286 GAGGAGCTCTTCCACCAAGCTCGACCGCAATTGGCAAGGGCTCGTTTGGGAGGCTTACAAG 345
QY 106 ATCATTCAGCTGCTGGAGAGGATGGCATGGCTTCCAGAGGCCCTTAGACCCAGGGCCC 165
Db 346 GGCATCGATACCAACACAAAGGAGTGGTGGCCATCAAGATCATCGACCTGGAGAGGCC 405
QY 166 TTTCACAGGGCAGCCCTTTGCCAGGAGCTGTGGACGACGGTTCAGCAAGCCAGGCC 225
Db 406 GAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTCAGTCAGGCC 465
QY 226 TACCACCCCGCAGCTGTGGGC 248
Db 466 TACATCACCGCTACTTTGGCTC 488

RESULT 14
US-09-541-228-4
; Sequence 4, Application US/09541228
; Patent No. 6232077
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Guegler, Karl J.
; APPLICANT: Hawkins, Phillip R.
; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/541,228
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/712,709
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0118 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2161 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY:
; CLONE: Consensus
US-09-541-228-4

Query Match 13.9%; Score 35; DB 3; Length 2161;
Best Local Similarity 48.3%; Pred. No. 1.4;

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY:
CLONE: Consensus
US-08-712-709-4

Query Match 13.9%; Score 35; DB 2; Length 2161;
Best Local Similarity 48.3%; Pred. No. 1.4;
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCAATCCATGCCCCAGCTCGAGACCTCATTCCAGCTCTTCTGATGAGCTCAGTTGG 105
Db 286 GAGGAGCTCTTCCACCAAGCTCGACCGCAATTGGCAAGGGCTCGTTTGGGAGGCTTACAAG 345
QY 106 ATCATTCAGCTGCTGGAGAGGATGGCATGGCTTCCAGAGGCCCTTAGACCCAGGGCCC 165
Db 346 GGCATCGATACCAACACAAAGGAGTGGTGGCCATCAAGATCATCGACCTGGAGAGGCC 405
QY 166 TTTCACAGGGCAGCCCTTTGCCAGGAGCTGTGGACGACGGTTCAGCAAGCCAGGCC 225
Db 406 GAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTCAGTCAGGCC 465
QY 226 TACCACCCCGCAGCTGTGGGC 248
Db 466 TACATCACCGCTACTTTGGCTC 488

RESULT 13
US-09-111-444-4
; Sequence 4, Application US/09111444
; Patent No. 6045792
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Guegler, Karl J.
; APPLICANT: Hawkins, Phillip R.
; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/111,444
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/712,709
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0118 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2161 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY:

Fri Feb 13 11:58:22 2004

Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCACTCCATGCCAGCTGGAGACCTCACTCCAGCTCTTCTGATGAGCTCAGTTGG 105
DB 286 GAGGAGCTCTTACCAAGCTGACCGCATGCGAAGGGCTCGTTGGGAGGTCTACAAG 345
QY 106 ATCATTTGAGCTGCTCGAGAAGGATGGCATGGCTTCCAGGAGGGCCCTAGACCCAGGGCCC 165
DB 346 GGCATCGATACCAACACAAAGAGGTGGTGGCCATCAAGATCATCGACCTGGAGAGGCC 405
QY 166 TTTGACGAGGGAGGCCCTTTGCCAGAGCTGCTGGAGAGCGGTCAAGAGCCAGGCC 225
DB 406 GAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTCGACAGGCC 465
QY 226 TACCACCCCGCAGCTGTGGGC 248
DB 466 TACATCACCCGCTACTTTGGCTC 488

RESULT 15
US-09-252-991A-8781/c
; Sequence 8781, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 8781
; LENGTH: 621
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-8781

Query Match 13.8%; Score 34.8; DB 4; Length 621;
Best Local Similarity 54.8%; Pred. No. 1.2;
Matches 69; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 105 GATCATTTGAGCTGCTGGAGAAGATGGCATGGCTTCCAGGAGGCCCTAGACCCAGGGCC 164
DB 576 GACCGCTGACCCGCTCGGCGAGGGCGCCGACGCGCTCCAGGTCTGCTGATCCAGAGCA 517
QY 165 CTTTGACCGGGCAGCCCTTTGCCAGGAGCTGTGGACGAGCGGTCAAGAGCCAGGCC 224
DB 516 CGGTGACCGCGGCTGGCGCCAGTCCAGCAGAGCCGCTCGAAGACCTGGTCCGCGCT 457
QY 225 CTACCA 230
DB 456 CGTGA 451

Search completed: February 13, 2004, 01:54:41
Job time : 15.4951 secs

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 12, 2004, 19:34:21 ; Search time 93.522 Seconds
(without alignments)
1750.959 Million cell updates/sec

Title:

Perfect score: 1980

Sequence: 1 MATTCISNIFSYFAMYS.....YKFGKNSGKBEVLQSRN 371

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-Q=/cgn2_1/USFIO.spool/US08978217/runat_10022004_133826_20481/app_query.fasta_1.1500
-DB=issued Patents NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=pct -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US08978217@cgn2_1.115@runat_10022004_133826_20481 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA.*
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2: /cgn2_6/ptodata/1/ina/5B COMB seq.*
3: /cgn2_6/ptodata/1/ina/6A COMB seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB seq.*
5: /cgn2_6/ptodata/1/ina/PCTUS COMB seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1980	100.0	1907	4	US-09-300-958A-27
2	1980	100.0	1907	4	US-09-570-593-4
3	1980	100.0	1920	1	US-08-746-789A-1
4	903	45.6	502	4	US-09-389-681-282
5	903	45.6	502	4	US-09-620-405B-282
6	903	45.6	502	4	US-09-339-338-282
7	903	45.6	502	4	US-09-433-826B-282
8	903	45.6	502	4	US-09-604-287A-282
9	559	28.2	5427	3	US-09-009-913-2
10	555.5	28.1	5510	3	US-09-009-913-3
11	555.5	28.1	5667	3	US-09-009-913-4
12	519.5	26.2	852	3	US-09-020-956-44

Sequence 44, Appl
Sequence 44, Appl
Sequence 44, Appl
Sequence 44, Appl
Sequence 38, App
Sequence 8, Appl
Sequence 6, Appl
Sequence 10, Appl
Sequence 97, App
Sequence 1, Appl
Sequence 3, Appl
Sequence 2, Appl
Sequence 1, Appl
Sequence 12, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 43, Appl
Sequence 9, Appl
Sequence 3, Appl
Sequence 10, Appl
Sequence 3, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-300-958A-27
; Sequence 27, Application US/09300958A

; Patent No. 6495319

; GENERAL INFORMATION:

; APPLICANT: McClelland, Michael

; APPLICANT: Trengle, Thomas

; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of

; FILE REFERENCE: P-PH 3457

; TITLE OF INVENTION: Using Same

; CURRENT FILING DATE: 1999-04-27

; PRIOR FILING DATE: 1998-04-27

; PRIOR APPLICATION NUMBER: 60/083,331

; PRIOR APPLICATION NUMBER: 60/098,070

; PRIOR FILING DATE: 1998-08-27

; PRIOR APPLICATION NUMBER: 60/118,624

; PRIOR FILING DATE: 1999-02-04

; NUMBER OF SEQ ID NOS: 85

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 27

; LENGTH: 1907

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-300-958A-27

Alignment Scores:

Pred. No.: 1.68e-185
Score: 1980.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 100.00%
DB: 4
Length: 1907
Matches: 371
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0

US-08-978-217-2 (1-371) x US-09-300-958A-27 (1-1907)

QY 1 MetAlaAlaThrCysGluLeuSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20
Db 96 ATGGCTGCAACTGTGAGATTAGCAACATTTTACCACTACTTTCAGTGGATGTACAGC 155
QY 21 SerGluAspSerThrLeuAlaSerValProProAlaAlaThrPheGlyAlaAspAspLeu 40
Db 156 TCGAGAGGACTCCAGCTGGCTCTGTTCCTCCCTCTCCCTCCCTCTCCCTCCCTCCCT 215
QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluThrGluLeuValSerTyrLeu 60
Db 216 GTACTGACCTGAGCAACCCCAAGTGTCTTGGAGGTACAGAGAGGAGGAGGAGGAGG 275
QY 61 GlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpIleSerTyrGlnVal 80
Db 276 GGGGAACAGCCCAAGTCTGTGTCGAGAGCAGGAGTCTTGGAGTGGATCAGTACCAAGT 335
QY 81 GluLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100
Db 336 GAGAGAACAAAGTACGAGCAGGAGCCATTTACTTCTCAGATGTGATGGATGGCGCC 395
QY 101 ThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120
Db 396 ACCCTCTGCAATTGTGCTTGGAGTGGCTGTCTGTCTTGGCTCTTGGCTCTTGGCT 455
QY 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerSerSerSerSerSerTrpIle 140
Db 456 CTCCATGCCAGCTCGAGAGCTCCTTCCAGCTCTTCTGATGAGCTCAGTGTGGATCAT 515
QY 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160
Db 516 GAGCTGCTGGAGAGGATGGATGGCTTCCAGAGGAGGCTTCCAGAGGAGGAGGAGGAG 575
QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180
Db 576 CAGGCGAGCCCTTGTGCGAGAGCTGTGAGCAGGCTCAGCAGGAGGAGGAGGAGGAG 635
QY 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerSerSerSerSerSerSer 200
Db 636 CCGGCGAGCTGTGGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 695
QY 201 ThrGlyAlaSerArgSerSerHisSerSerSerSerSerSerSerSerSerSerSerSer 220
Db 696 ACTGTGTCTTCCGAGCTCCACTCTCCAGACTCCGCTGAGAGTGGAGTGGAGTGGAT 755
QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro 240
Db 756 CCCACTGATGCAAGCTCTTCCCAGCGATGGTTTCTGAGTCCAAAGAGGAGGAGTCCC 815
QY 241 LysHisGlyLysArgLysArgLysArgProArgLysLeuSerLysGluTyrTrpAspCys 260
Db 816 AAGCAGCGAGAGCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 875
QY 261 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 280
Db 876 CTGAGAGGCAAG 935
QY 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 300
Db 936 GACATCTCTATCCACCCGAGACTCAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 995
QY 301 GlyValPheLysPheLeuSerSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 320
Db 996 GCGGTCTTCAAGTCTCTGCTGCTGAGGCTGTGGGCTGAGGCTGAGGCTGAGGCTGAG 1055
QY 321 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 340
Db 1056 AACAGCAACATGACCTAGAGAGCTGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1115
QY 341 IleLeuGluArgValAspGlyArgGluLeuValTyrLysPheGlyLysAsnSerSerGly 360
Db 1116 ATCCTGGAGAGGGTGGATGGCGGAGCTCTGCTACAGATTGTGGCAAAAGTCAAGCGC 1175

QY 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371
Db 1176 TGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1208
RESULT 2
US-09-570-593-4
; Sequence 4, Application US/09570593
; Patent No. 656063
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Xin, Hong
; APPLICANT: Harrowe, Greg
; TITLE OF INVENTION: EXPRESSION OF B2S-DOMAIN PROTEINS IN
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (96)...(1211)
; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)
; OTHER INFORMATION: protein.
US-09-570-593-4
Alignment Scores:
Pred. No.: 1.68e-185 Length: 1907
Score: 1980.00 Matches: 371
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0
US-08-978-217-2 (1-371) x US-09-570-593-4 (1-1907)
QY 1 MetAlaAlaThrCysGluLeuSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20
Db 96 ATGGCTGCAACTGTGAGATTAGCAACATTTTACCACTACTTTCAGTGGATGTACAGC 155
QY 21 SerGluAspSerThrLeuAlaSerValProProAlaAlaThrPheGlyAlaAspAspLeu 40
Db 156 TCGAGAGGACTCCAGCTGGCTCTGTTCCTCCCTCTCCCTCCCTCTCCCTCCCTCCCT 215
QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluThrGluLysAlaSerTrpLeu 60
Db 216 GTACTGACCTGAGCAACCCCAAGTGTCTTGGAGGTACAGAGAGGAGGAGGAGGAGGAG 275
QY 61 GlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpIleSerTyrGlnVal 80
Db 276 GGGGAACAGCCCAAGTCTGTGTCGAGAGCAGGAGTCTTGGAGTGGATCAGTACCAAGT 335
QY 81 GluLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100
Db 336 GAGAGAACAAAGTACGAGCAGGAGCCATTTACTTCTCAGATGTGATGGATGGCGCC 395
QY 101 ThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120
Db 396 ACCCTCTGCAATTGTGCTTGGAGTGGCTGTCTGTCTTGGCTCTTGGCTCTTGGCT 455
QY 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerSerSerSerSerTrpIle 140
Db 456 CTCCATGCCAGCTCGAGAGCTCCTTCCAGCTCTTCTGATGAGCTCAGTGTGGATCAT 515
QY 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160
Db 516 GAGCTGCTGGAGAGGATGGATGGCTTCCAGAGGAGGCTTCCAGAGGAGGAGGAGGAG 575

QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180
 DB 576 CAGGGAGAGCCCTTCCCGAGGAGCTGCTGGACGAGCTCAGCAAGCCAGCCCTTACCAC 635
 QY 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly 200
 DB 636 CCGGAGAGCTGGGCGAGGAGCCCTTCCCTGGGAGCTCTGAGCTCTCCACCGCAGGG 695
 QY 201 ThrGlyAlaSerArgSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp 220
 DB 696 ACTGGTCTTCTCGAGCTCCCACTCTCAGACTCCGGTGGAGTGCAGCTGACCTGGAT 755
 QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro 240
 DB 756 CCACCTGATGGCAAGCTTCTCCCGAGAGTGTTCGGTCTGCAAGAGGGGATCCC 815
 QY 241 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGlyLysTrpAspCys 260
 DB 816 AAGCAGGGGAGCGGAACAGGAGCGCCCGGAAAGCTGAGCAAGAGTACTGGAGCTGT 875
 QY 261 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 280
 DB 876 CTCGAGGGCAAGAGAGAGCAAGCAGCGCCCGAGAGGCAACCTCTGGGAGTTCATCCGG 935
 QY 281 AspileLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 300
 DB 936 GACATCTCATCCCGGAGCTCAAGAGGAGCTCATGAGTGGAGAGATCGGATGNA 995
 QY 301 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 320
 DB 996 GGGCTCTCAAGTCTCGCTCCGAGGCTGTGGCCCAACTATGGGGCCCAAGAAAAAG 1055
 QY 321 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 340
 DB 1056 AACAGCAACATGACTACGAGAAGCTGAGCGGGCCATGAGGTACTTACAAACGGAG 1115
 QY 341 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheLysAsnSerSerGly 360
 DB 1116 ATCTGGAACGGGTGGATGGCGGCGACTCGTCTACAAAGTTGGCAAAACTCAAGCGGC 1175
 QY 361 TrpLysGluGluGlnValLeuGlnSerArgAsn 371
 DB 1176 TGGAGAGGAGAGAGGTCTCCAGAGTCGGAAC 1208

RESULT 3

US-08-746-789A-1
 ; Sequence 1, Application US/08746789A
 ; Patent No. 578200
 ; GENERAL INFORMATION:
 ; APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck
 ; TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELP3
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SmithKline Beecham Corporation
 ; STREET: 709 Swedeland Road, P.O. Box 1539
 ; CITY: King of Prussia
 ; STATE: PA
 ; COUNTRY: USA
 ; ZIP: 19406-0939
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
 ; COMPUTER: IBM 486
 ; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
 ; SOFTWARE: MICROSOFT WORD
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/746, 789A
 ; FILING DATE: No. 5789200el 15, 1996
 ; CLASSIFICATION: 514
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:

; NAME: William T. Han
 ; REGISTRATION NUMBER: 34,344
 ; REFERENCE/DOCKET NUMBER: ATG 50024
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 610 270 5219
 ; TELEFAX: 610 270 4026
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:

; LENGTH: 1920
 ; TYPE: Nucleic Acid
 ; STRANDEDNESS: Single
 ; TOPOLOGY: Linear
 ; ANTI-SENSE: NO

US-08-746-789A-1

Alignment Scores:

Pred. No.: 1.69e-185 Length: 1920
 Score: 1980.00 Matches: 371
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 1 Gaps: 0

US-08-978-217-2 (1-371) x US-08-746-789A-1 (1-1920)

QY 1 MetAlaAlaThrCysGluIleSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20
 DB 115 ATGCTCACAACCTGTGAGATTAGCACATTTTATAGCACTACTTTCAGTGGATGTACAGC 174
 QY 21 SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspAspLeu 40
 DB 175 TCGAGGAGCTCCACTTGGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCCGATGACTTG 234
 QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu 60
 DB 235 GTACTGACCTGACACACCCCGAGATGTCATTGAGGGTACAGAGAGGTACTGTGTTG 294
 QY 61 GlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpLysSerTyrGlnVal 80
 DB 295 GGGCAACAGCCCCAGTTCTGTGTCGAGACGACAGGTTCTGGACTGGATCAGTACCAAGTG 354
 QY 81 GluLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100
 DB 355 GAGAGAACCAAGTACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 414
 QY 101 ThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120
 DB 415 ACCCTCTGCATTTGTGCCCTTGGAGGCTGCGTCTGGTCTTTGGGCTCTGGGGGACCAA 474
 QY 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerSerSerSerSerSerSerSer 140
 DB 475 CTCCATGCCAGCTGCCAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAAT 534
 QY 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160
 DB 535 GAGCTGTGGAGAGGATGGATGGCCCTCCAGAGGCCCTAGCCAGGCCCTTTTGAC 594
 QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180
 DB 595 CAGGGCAGCCCTTTGCCAGGAGCTGCTGACGAGCTGCTGACGAGCAGCCCTTACCAC 654
 QY 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerSerSerSerSerSerSer 200
 DB 655 CCGGAGCTGTGGCGAGGAGCCCTTCCCTCCCTGGAGCTCTGACGCTCTCCACCGCAGGG 714
 QY 201 ThrGlyAlaSerArgSerSerHisSerSerSerSerSerSerSerSerSerSerSerSer 220
 DB 715 ACTGGTCTTCTCGAGCTCCCACTCTCTCAGACTCCGGTGGAGAGTGCAGTGGACCTGGAT 774
 QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro 240
 DB 775 CCACCTGATGGCAAGCTCTTCCCGAGGATGGTTTCTGCTGACTGCAAGAGGGGGATCCC 834

QY 241 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 260
DB 835 AAGCACGGGAACGAAACAGAGGCGCGCCGAAAGCTGAGCAAGAGTACTGGGACTGT 894
QY 261 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 280
DB 895 CTCGAGGCAAGAGAGCAAGCAGCGCCGAGAGCCACCCCTGTGGGAGTTTCATCCCG 954
QY 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 300
DB 955 GACATCTCATCCACCCCGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGCATGAA 1014
QY 301 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 320
DB 1015 GGCCTCTTCAAGTTCCTCGCGCTCCGAGGCTGTGCGCCAACTATGGGGGCAAAAGAAAG 1074
QY 321 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 340
DB 1075 AACAGCAACATGACCTACGAGAACTGACCGGGCCATGAGTACTACTACAAACGGGAG 1134
QY 341 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly 360
DB 1135 ATCTTGAACGGGTGGATGGCGCGGACTCGTCTACAAGTTTGGCAAAACTCAAGCGGC 1194
QY 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371
DB 1195 TGGAGAGAGAGAGAGAGTCTCCAGAGTCGGAAC 1227

RESULT 4

US-09-389-681-282
; Sequence 282, Application US/09389681A
; Patent No. 6518237

GENERAL INFORMATION:

; APPLICANT: Yuqi, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C3

; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02

; NUMBER OF SEQ ID NOS: 463

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-389-681-282

Alignment Scores:

Pred. No.: 3.01e-80 Length: 502
Score: 903.00 Matches: 166
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 45.61% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-2 (1-371) x US-09-389-681-282 (1-502)

QY 184 CysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla 203
DB 3 TGTGGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 62
QY 204 SerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAsp 223
DB 63 TCTCGAGCTCCCACTCTCAGACTCCGGTGGAGTACGCTGACCTCCACCGAGGAGTGGTGCT 122
QY 224 GlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspProLysHisGly 243
DB 123 GGCAGAGCTCTTCCCGAGCGATGGTTTCGTGACTGCAAGAGGGGATCCCAAGCAGCGG 182
QY 244 LysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGly 263

DB 183 AAGCGAAACAGAGCGCGCCCGGAAAGCTGAGCAAGAGTACTGGGAGTGTCTCGAGGGC 242
QY 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspIleLeu 283
DB 243 AAGAAGACAGAGCAGCGCCGAGAGGACCCACCTGTGGGAGTTTCATCCGGGAGTCTTC 302
QY 284 IleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPhe 303
DB 303 ATCCACCCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAAGGGGTCTTC 362
QY 304 LysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysAsnSerAsn 323
DB 363 AAGTTCCTCGCGCTCCGAGGCTGTGCGCCAACTATGGGGCCCAAAAGAAAGACAGCAAC 422
QY 324 MetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGluLeuGlu 343
DB 423 ATGACCTACGAGAGAGCTGAGCGGGCCATGAGGTACTACTACAAACGGGAGATCTCGAA 482
QY 344 ArgValAspGlyArgArg 349
DB 483 CGGGTGGATGGCGCGCA 500

RESULT 5

US-09-620-405B-282
; Sequence 282, Application US/09620405B
; Patent No. 6528054

GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqi
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C8

; CURRENT APPLICATION NUMBER: US/09/620,405B

; CURRENT FILING DATE: 2000-07-20

; NUMBER OF SEQ ID NOS: 495

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-620-405B-282

Alignment Scores:

Pred. No.: 3.01e-80 Length: 502
Score: 903.00 Matches: 166
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 45.61% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-2 (1-371) x US-09-620-405B-282 (1-502)

QY 184 CysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla 203
DB 3 TGTGGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 62
QY 204 SerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAsp 223
DB 63 TCTCGAGCTCCCACTCTCAGACTCCGGTGGAGTACGCTGACCTCCACCGAGGAGTGGTGCT 122
QY 224 GlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspProLysHisGly 243
DB 123 GGCAGAGCTCTTCCCGAGCGATGGTTTCGTGACTGCAAGAGGGGATCCCAAGCAGCGG 182
QY 244 LysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGly 263
DB 183 AAGCGAAACAGAGCGCGCCCGGAAAGCTGAGCAAGAGTACTGGGAGTGTCTCGAGGGC 242

Db 363 AAGTTCCTCGCTCCAGGCTGTGGCCCACTATGGGCCAAGAAAGAAAGCAAC 422
 Qy 324 MetThrTyrluLysLeuSerArgAlaMetArgTyrluLysArgGluLeuLeuGlu 343
 Db 423 ATGACCTACGAGAGCTGAGCGGCCCATGAGGTACTACTACAAACGGGAGATCTCTGGAA 482
 Qy 344 ArgValAspGlyArgArg 349
 Db 483 CGGGTGGATGGCCGGCGA 500

RESULT 8

US-09-604-287A-282
 ; Sequence 282, Application US/09604287A
 ; Patent No. 6586572
 ; GENERAL INFORMATION:
 ; APPLICANT: Jiang Yugu
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Hepler, William T.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; FILE REFERENCE: 210121.470CT
 ; CURRENT APPLICATION NUMBER: US/09/604,287A
 ; CURRENT FILING DATE: 2000-06-22
 ; NUMBER OF SEQ ID NOS: 489
 ; SOFTWARE: Fast-Seq for Windows Version 3.0
 ; SEQ ID NO 282
 ; LENGTH: 502
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-604-287A-282

Alignment Scores:

Pred. No.: 3,01e-80 Length: 502
 Score: 903.00 Matches: 166
 Percent Similarity: 100.00% Conservativity: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 45.61% Indels: 0
 DB: 4 Gaps: 0

US-08-978-217-2 (1-371) x US-09-604-287A-282 (1-502)

Qy 184 CysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla 203
 Db 3 TGTGGCGCAGGAGCCCTCTCCCGGCGAGCTCTGACCTCTCCACCGAGGAGCTGGTCT 62
 Qy 204 SerArgSerHisSerSerAspSerGlySerAspValAspLeuAspProThrAsp 223
 Db 63 TCTCGGAGCTCCACTCTCTCAGACTCCGGTGGAGTCACTGGACCTGGATCCCACTGAT 122
 Qy 224 GlyLysLeuPheProSerAspGlyPheArgAspCysLysGlyAspProLysHisGly 243
 Db 123 GGCAAGCTCTTCCCGCAGCTGTTTCGTGACTGCAAGAGGGGGATCCCAAGCAGCGG 182
 Qy 244 LysArgLysArgGlyArgProArgLysLeuSerLysGlyLysTrpAspCysLeuGly 263
 Db 183 AAGCGGAACAGCGCGCCGCCAGCTGAGCAAGAGTACTGGAGTCTCTCGAGGC 242
 Qy 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspLeu 293
 Db 243 AAGAGAGCAAGCAGCGCGCCCGCAGAGGACCCACCTGTGGAGTTTCATCCGGGACATCCTC 302
 Qy 284 IleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPhe 303
 Db 303 ATCCACCCGGAGCTCAACAGGGGCTCATGAGTGGAGAGATCGCATGAGGCGTCTTC 362
 Qy 304 LysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsn 323
 Db 363 AAGTTCCTCGCTCCAGGCTGTGGCCCACTATGGGGCCCAAGAAAGAAAGCAAC 422

Qy 324 MetThrTyrluLysLeuSerArgAlaMetArgTyrluLysArgGluLeuLeuGlu 343
 Db 423 ATGACCTACGAGAGCTGAGCGGCCCATGAGGTACTACTACAAACGGGAGATCTCTGGAA 482
 Qy 344 ArgValAspGlyArgArg 349
 Db 483 CGGGTGGATGGCCGGCGA 500

RESULT 9

US-09-009-913-2
 ; Sequence 2, Application US/09009913
 ; Patent No. 6087485
 ; GENERAL INFORMATION:
 ; APPLICANT: Axy's Pharmaceuticals, Inc.
 ; TITLE OF INVENTION: Asthma Related Genes
 ; NUMBER OF SEQUENCES: 339
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Bozicevic & Reed, LLP
 ; STREET: 285 Hamilton Ave, Suite 200
 ; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94301
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSeq for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/009,913
 ; FILING DATE: 21-JAN-1998
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sherwood, Pamela J
 ; REGISTRATION NUMBER: 36,677
 ; REFERENCE/DOCKET NUMBER: SEQ-4P
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 650-327-3231
 ; TELEFAX: 650-327-3231
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 5427 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; US-09-009-913-2

Alignment Scores:
 Pred. No.: 8.19e-45 Length: 5427
 Score: 559.00 Matches: 140
 Percent Similarity: 47.42% Conservativity: 44
 Best Local Similarity: 36.08% Mismatches: 88
 Query Match: 28.23% Indels: 116
 DB: 3 Gaps: 12

US-08-978-217-2 (1-371) x US-09-009-913-2 (1-5427)

Qy 27 AlaSerValProProAlaAlaThr-----PheGlyAlaAspAspLeuValLeuThr 43
 Db 84 GTGTGCTCCCTCCATCATGAGTATGGATTCCCAACCCAGAAATCTTTAGTA--- 140
 Qy 44 LeuSerAsnProGlnMetSerLeuGluGly----- 53
 Db 141 -----ATGAGATCATGATTTCTGGAGGAGGTGTGTATGAATCTCAACCCCGGCAAC 194
 Qy 54 -----ThrGluLysAlaSer----- 58
 Db 195 AACCTCTCTTCCAGCCCGCCAGCTGGGACAGACAGTACTCTCCAGTGCATGTTTCCAGT 254

Qy 59 -----TrrLeuGlyGluGlnProGlnPheTrpSerLysThrGlnVal 72
 Db 255 GGGTTTTTTGGAGGCGCAGTGGCATGAAATTCATCTCAGTACTGACCAAGTACCGAGTG 314
 Qy 73 LeuAspTrpLysSerTyrglnValGluLysAsnLysTyrglnValAlaSerAlaIleAspPhe 92
 Db 315 TGGAGTGGCTCAGCAGCTCTGAGACCAACCGAGTGGATGCAATGTATCTCTTTC 374
 Qy 93 SerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeu 112
 Db 375 CAAGAGTTCGACATCAACGCGCAGCAGCTCTGAGCAGTTCAGGAGTTCACCGCG 434
 Qy 113 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr----- 129
 Db 435 GCGGACGAGCGCGCGGCGAGCTCTCTACAGCAACTTCAGCAGTCTCAAGTGGAGCGC 494
 Qy 130 SerSerSerSerAspGluLeuSerTrpIleLeuGluLeuLeuGluLysAspGlyMetAla 149
 Db 495 CAGTGCAGTAGTGAC-----CTG 512
 Qy 150 PheGlnGluAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeu 169
 Db 513 TTTCCAGTCC-----ACACACAATGTC 533
 Qy 170 LeuAspAspGlyGlnGlnAlaSerProTyrglnHisProGlySerCysGlyAlaGlyAlaPro 189
 Db 534 ATTGTCAAGACTGAACAACTAGCT-----TTGGACAGCAAACTTTC----- 560
 Qy 190 SerProGlySerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerHisSer 209
 Db 561 -----TCCATCATGAACACCTCGAAGAGCAGCACTATTATAT 599
 Qy 210 SerAspSerGlyGlySerAspValAspLeuAspProThrAspGlyLysLeuPheProSer 229
 Db 600 GACACCATATGATGACAGCAGTAGATTG-----TTGGACAGCAAACTTTC----- 647
 Qy 230 AspGlyPheArgAspCysLysLys----- 237
 Db 648 -----TGCGGGGTCTCAGATCTCCATGACCAACCCAGTCCCTCTGTT 692
 Qy 238 GlyAspProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTy 257
 Db 693 GCAGATCACTCATATGATAAAGGAGCAAGACCCCTCGCAAGTGCACACCAAA--- 749
 Qy 258 TrpAspCysLeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGlu 277
 Db 750 -----NAGCACACCCGAGAGGACTCACTATGCGAA 782
 Qy 278 PheIleArgAspIleLeuLeuHisProGluLeuAsnGluLysLeuMetLysTrpGluAsn 297
 Db 783 TCCATCCGCGACATCTCTGAACCCAGACCAAGACCCAGGATTAATAAATGGGAAGAC 842
 Qy 298 ArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGln 317
 Db 843 CGATCTGAGGGCTCTTCTAGTCTTGAATCAGAGCGAGTGGCTCAGCTATGGGGTAAA 902
 Qy 318 LysLysLysAsnSerAsnMetThrTrpGluLysLeuSerArgAlaMetArgTyTrpTy 337
 Db 903 AAGAAGAACCAACAGCAGCATCACTATGAAGAGCTCAGCGAGCTATGAGATATTACTAC 962
 Qy 338 LysArgGluLeuLeuGluArgValAspGlyArgGluLeuValTyLysPheGlyLysAsn 357
 Db 963 AAAAAGAAATACTGAGCGGTGGATGACCAAGACTGGTATATAAATTTGGGAAGAT 1022
 Qy 358 SerSerGlyTrpLysGluGlu 365
 Db 1023 GCGCGAGGATGGAGAGAAATGAA 1046

RESULT 10

US-09-009-913-3

; Sequence 3, Application US/09009913

; Patent No. 6087485

GENERAL INFORMATION:
 APPLICANT: AxyS Pharmaceuticals, Inc.
 TITLE OF INVENTION: Asthma Related Genes
 NUMBER OF SEQUENCES: 339
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bozicevic & Reed, LLP
 STREET: 285 Hamilton Ave, Suite 200
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94301
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/009,913
 FILING DATE: 21-JAN-1998
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Sherwood, Pamela J
 REGISTRATION NUMBER: 36,677
 REFERENCE/DOCKET NUMBER: SEQ-4P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 850-327-3231
 TELEFAX: 650-327-3231
 TELEX:
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5510 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-09-009-913-3

Alignment Scores:
 Pred. No.: 1.85e-44 Length: 5510
 Score: 555.50 Matches: 126
 Percent Similarity: 51.24% Conservative: 39
 Best Local Similarity: 39.13% Mismatches: 78
 Query Match: 28.06% Indels: 79
 DB: 3 Gaps: 8

US-08-978-217-2 (1-371) x US-09-009-913-3 (1-5510)

Qy 59 TrpLeuGlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpLysSerTy 78
 Db 356 TGGCATGAAATTCATCTCAGTACTGACCAAGTACCAAGTGGAGTGGCTCCAGCAC 415
 Qy 79 GlnValGluLysAsnLysTyrglnValAlaSerAlaIleAspPheSerArgCysAspMetAsp 98
 Db 416 CTCTGGACACCAACCACTGGATGCAATGTATCCCTTCCAGAGTTCGACATCAAC 475
 Qy 99 GlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGly 118
 Db 476 GCGAGCACCTCTGAGCAGTGGATTTTCCAGGAGTTCACCGCGCGGCGAGCGCGGG 535
 Qy 119 AspGlnLeuHisAlaGlnLeuArgAspLeuThr-----SerSerSerSerAspGlu 135
 Db 536 CAGCTCTCTACAGCAACTTCAGCATCTGAGTGAAGCGGCGGCGAGTGTAGTAC--- 592
 Qy 136 LeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAsp 155
 Db 593 -----CTGTTCAGTCC----- 604
 Qy 156 ProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspGlyGlnGln 175
 Db 605 -----ACACAAATGTCTTCTCAAGACTGAACAA 634

176 AlaserProTyrHisProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAsp 195
 635 ACTGAGCT-----
 196 ValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerAspSerGlyGlySer 215
 644 ---TCCATCATGACACCTGGAAGACGAGCACTTTATATGACACCACTATGTTAGC 700
 216 AspValAspLeuAspProThrAspGlyLeuPheProSerAspGlyPheArgAspCys 235
 701 ACAGTAGATTG-----TTGGACAGCAAACTTTC-----TGC 733
 236 LysLys-----GlyAspProLysHisGly 243
 734 CGGCTCAGATCTCCATGACAAACCCAGTCACCTTCTGTCAGAGTCACCTGATATG 793
 244 LysArgLysArgGlyArgProArgLysLeuSerLysGlyTrpAspCysLeuGly 263
 794 AAAGAGGAGCAAGACCCCTTCCAACTGCAAGTCCACACCAA-----832
 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspLeu 283
 833 -----AAGCAACACCCGAGGAGCTCACTTATGGAAATTCATCCGACATCTTC 883
 284 IleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPhe 303
 884 TTGAACCCAGCAAGAACCCGAGGATTAAATGAATGGAGACCATCTGAGGCGCTTC 943
 304 LysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsn 323
 944 AGTTCTTGAATCAGAGGAGTGGCTCAGTCATGGGTAAAGAAAGAACACACGAGC 1003
 324 MetThrTrpGluLysLeuSerArgAlaMetArgTrpTrpLysArgGluLeuGlu 343
 1004 ATGACCTATGAAGAGCTCAGCCGAGCTATGAGATATTACTACAAAGAGAAATCTGGAG 1063
 344 ArgValAspGlyArgArgLeuValTyrPheGlyLysAsnSerSerGlyTrpLysGlu 363
 1064 CGTGTGGATGACGAGACTGTATATATTTGGAGAGATGCCCGAGATGGAGAGAA 1123
 364 GluGlu 365
 1124 AATGAA 1129

RESULT 11

US-09-009-913-4
 ; Sequence 4, Application US/09009913
 ; Patent No. 6087485
 ; GENERAL INFORMATION:
 ; APPLICANT: Axys Pharmaceuticals, Inc.
 ; TITLE OF INVENTION: Asthma Related Genes
 ; NUMBER OF SEQUENCES: 339
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Bozicevic & Reed, LLP
 ; STREET: 285 Hamilton Ave, Suite 200
 ; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94301
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSeq for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/009,913
 ; FILING DATE: 21-JAN-1998
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:

NAME: Sherwood, Pamela J
 REGISTRATION NUMBER: 36,677
 REFERENCE/DOCKET NUMBER: SEQ-4P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650-327-3231
 TELEFAX: 650-327-3231
 TELEX:
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5667 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-09-009-913-4

Alignment Scores:
 Pred. No.: 1,93e-44 Length: 5667
 Score: 555.50 Matches: 126
 Percent Similarity: 51.24% Conservative: 39
 Best Local Similarity: 39.13% Mismatches: 79
 Query Match: 28.06% Indels: 8
 DB: 3 Gaps: 8

US-08-978-217-2 (1-371) x US-09-009-913-4 (1-5667)

QY 59 TrpLeuGlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpLysSerTyr 78
 DB 513 TGGCATGAAATTCATCTCTAGTACTGACCAAGTACCGAGTGTGGAGTGGCTCCAGCAC 572
 QY 79 GlnValGluLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAsp 98
 DB 573 CTCCTGGACACCAACCACTGATGCAATGTATCTCTTCCAAAGAGTTCGACATCAAC 632
 QY 99 GlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGly 118
 DB 633 GCGGAGCACCCTCTGAGCATGATGTTGAGGAGTTCCACCGGCGGAGGAGCGCGGG 692
 QY 119 AspGlnLeuHisAlaGlnLeuArgAspLeuThr-----SerSerSerSerAspGlu 135
 DB 693 CAGCTCTCTACAGCAACTCTGAGCATCTGAAGTGAACGCGCAGTGCAGTAGTGAC--- 749
 QY 136 LeuSerTrpIleIleGluLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAsp 155
 DB 750 -----CTGTCCAGTCC-----761
 QY 156 ProGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAspGlyGlnGln 175
 DB 762 -----ACACACAATGTCATTGTCAAGACTGAACAA 791
 QY 176 AlaSerProTyrHisProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAsp 195
 DB 792 ACTGAGCT-----800
 QY 196 ValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerAspSerGlyGlySer 215
 DB 801 ---TCCATCATGACACCTGGAAGACGAGCACTTTATATGACACCACTATGTTAGC 857
 QY 216 AspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCys 235
 DB 858 ACAGTAGATTG-----TTGGACAGCAAACTTTC-----TGC 890
 QY 236 LysLys-----GlyAspProLysHisGly 243
 DB 891 CGGCTCAGATCTCCATGACAAACCCAGTCACCTTCTGTCAGAGTCACCTGATATG 950
 QY 244 LysArgLysArgGlyArgProArgLysLeuSerLysGlyTrpTrpAspCysLeuGly 263
 DB 951 AAAAGAGGAGCAAGACCCCTTCCAACTGCAAGTCCACACCAA-----989
 QY 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspLeu 283
 DB 990 -----AAGCAACACCCGAGGAGTCACTTATGGAAATTCATCCGAGATCTCTC 1040

NUMBER OF SEQUENCES: 224
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/030,607
 FILING DATE: 25-FEB-1998
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Maki, David J.
 REGISTRATION NUMBER: 31,392
 REFERENCE/DOCKET NUMBER: 210121.427C3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 852 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 US-09-030-607-44

Alignment Scores:
 Pred. No.: 4,04e-42
 Score: 519.50
 Percent Similarity: 50.97%
 Best Local Similarity: 39.03%
 Query Match: 26.24%
 DB: 3
 Gaps: 8

US-08-978-217-2 (1-371) x US-09-030-607-44 (1-852)

Qy 71 GluValLeuAspTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerAlaIle 90
 Db 850 CAGGTGGAGTGGCTCCATCCCTCGACACCAACACCACTGGATGCCATTGTATC 791
 Qy 91 AspPheSerArgCysAspMetAspGlyAlaThrLeuLysCysAsnLysLeuGluGlu 110
 Db 790 CCTTTCGAGTTCGACATCAACGGCGAGACCTTTGACGATGAGTTGCGAGGATC 731
 Qy 111 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr 129
 Db 730 ACCGGCGCGCAGGACGGCGGGGCGGCTCCCTCAGCAACTTCGAGCATTCGAAGTGG 671
 Qy 130 -----SerSerSerSerSerSerSerSerSerSerSerSerSerSerSerSer 147
 Db 670 AACGGCGCGAGTGCAGTAGTGAC----- 650
 Qy 148 MetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGln 167
 Db 649 ----CTGTTCCAGTCC-----ACACAC 632
 Qy 168 GluLeuLeuAspAspGlyGlnAlaSerProTyrHisProGlySerCysGlyAlaGly 187
 Db 631 AATGTCATTTCAGACTGACAACTGACCT----- 599
 Qy 188 AlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSer 207
 Db 598 -----TCCATCATGAACACCTGGAAAGACNAGAACTAT 566

Qy 208 HisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAspGlyLysLeuPhe 227
 Db 565 TTATATGACACCACTATGTCAGCAGTAGATTG-----TTGACAGCAAAACTTTC 512
 Qy 228 ProSerAspGlyPheArgAspCysLysLys----- 237
 Db 511 -----TGCCGGGCTCAGATCTCCATGACACCACTGACCTT 473
 Qy 238 -----GlyAspProLysHisGlyLysArgLysArgLysArgLysLeuSerLys 255
 Db 472 CCTGTTGACAGAGTCACCTGATGAAAAGAGCAAGACCCCTCCCAAGTGCACAC 413
 Qy 256 GluTyrTrpAspCysLeuGluGlyLysSerLysHisAlaProArgGlyThrHisLeu 275
 Db 412 AAA-----AAGCAACCCGAGAGGGACTCACTTA 383
 Qy 276 TrpGluPheIleArgAspIleLeuHisProGluLeuAsnGluGlyLeuMetLysTrp 295
 Db 382 TGGGAATTTCATCCGACATCTCTTGAACCCAGACCAAGACCCAGGATTAATAAATGG 323
 Qy 296 GluAsnArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrp 315
 Db 322 GAAGACCGATCTGAGGCGCTTTCAGGTTCTTGAATCAGAGCAGTGGCTCAGCTATGG 263
 Qy 316 GlyGlnLysLysLysAsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyr 335
 Db 262 GGTAAAGAAGAGAACACACAGCAGCATGCTATGAAAAGCTCAGCCGAGCTATGATAT 203
 Qy 336 TyrTrpLysArgGluLeuLeuGluArgValAspGlyArgArgLeuValTyrLysPheGly 355
 Db 202 TACTACAAAAGAGAAATTCGAGCGCTGTGGATGGAGCAAGCTGGTATATAAATTTGG 143
 Qy 356 LysAsnSerSerGlyTrpLysGluGluGlu 365
 Db 142 AAGATGCCGAGATGGAGAAAATGAA 113

RESULT 14

US-09-439-313-44/c
 ; Sequence 44, Application US/09439313
 ; Patent No. 6329505
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan Louise
 ; APPLICANT: Jiang Yuqui
 ; APPLICANT: Reed, Steven G.
 ; APPLICANT: Kalos, Michael
 ; APPLICANT: Fanger, Gary
 ; APPLICANT: Retter, Mark
 ; APPLICANT: Solk, John
 ; APPLICANT: Day, Craig
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
 ; FILE REFERENCE: 210121.427C9
 ; CURRENT APPLICATION NUMBER: US/09/439,313
 ; CURRENT FILING DATE: 1999-11-12
 ; NUMBER OF SEQ ID NOS: 575
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 44
 ; LENGTH: 852
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (1)...(852)
 ; OTHER INFORMATION: n = A,T,C or G
 US-09-439-313-44

Alignment Scores:
 Pred. No.: 4,04e-42
 Score: 519.50
 Percent Similarity: 50.97%
 Length: 852
 Matches: 121
 Conservative: 37

Best Local Similarity: 39.03% Mismatches: 73
Query Match: 26.24% Indels: 79
DB: 4 Gaps: 8

US-08-978-217-2 (1-371) x US-09-439-313-44 (1-852)

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Qy 71 GlnValLeuAspTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerAlaIle 90
Db 850 CAGGTGGAGTGGCTCCATCCCTGGACCAACAGCAGTGGATGCAATGTATC 791
Qy 91 AspPheSerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluLeu 110
Db 790 CCTTCCAGAGTTCAGATCAACAGCGGAGCAGCTTTGAGCATGTGAGAGTTC 731
Qy 111 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr 129
Db 730 ACCCGGCGGAGCGGAGCGGCGGAGCAGCTTCTACAGCAACTTGCAGCATCTGAAGTGG 671
Qy 130 -----SerSerSerSerArgGluLeuSerTrpIleLeuLeuGluLysAspGly 147
Db 670 AACGGCCAGTGCAGTAGTGAC----- 650
Qy 148 MetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGln 167
Db 649 ---CTGTTCAGTCC-----ACACAC 632
Qy 168 GluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySerCysGlyAlaGly 187
Db 631 AATGTCTTCAAGACTGACCAACAGTACGCTT----- 599
Qy 188 AlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSer 207
Db 598 -----TCCATCATGAACACCTTGGAAAGACNAGAACTAT 566
Qy 208 HisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAspGlyLysLeuPhe 227
Db 565 TTATATGACCAACTATGTGTAGCAGATGATTG-----TTGGACAGCAAACTTTC 512
Qy 228 ProSerAspGlyPheArgAspCysLysLys----- 237
Db 511 -----TGCCGGGCTCAGATCTCCATGACACACCCAGTCACTT 473
Qy 238 -----GlyAspProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLys 255
Db 472 CCTGTTCAGAGTCACTGTATGAAAGAGGAGCAAGACCCCTGCCAAGTGCCACACC 413
Qy 256 GluTyrTrpAspCysLeuGluGlyLysSerLysHisAlaProArgGlyThrHisLeu 275
Db 412 AAA-----AAGCACAAACCCGAGAGGAGTCACTTA 383
Qy 276 TrpGluPheIleArgAspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrp 295
Db 382 TGGGAATTCATCCGCGACATCTTGAACCCAGACAAAGAACCCAGGATTATAAATGG 323
Qy 296 GluAsnArgHisGluGlyValPhePheLeuArgSerGluAlaValAlaGlnLeuTrp 315
Db 322 GAAGCCGATCTGAGGCGCTTTCAGGTTCTTGAATCAGAGCAGTGGCTCAGTATGG 263
Qy 316 GlyGlnLysLysLysAsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyr 335
Db 262 GGTAAAGAGAAAGAACACAGCAGCATGACCTATGAAAGAGTCAAGCAGCATATGAGATAT 203
Qy 336 TyrTrpLysArgGluIleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGly 355
Db 202 TACTACAAAAGAGAAATCTGGAGCGGTGTGGATGGAGAGACTGGTATATATAATTTGG 143
Qy 356 LysAsnSerSerGlyTrpLysGluGluGlu 365
Db 142 AAGNATCCCGAGGATGGAGAGAAATGAA 113

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RESULT 15

US-09-352-616A-44/c

; Sequence 44, Application US/09352616A

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; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jianshun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352.616A
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(852)
; OTHER INFORMATION: n = A,T,C or G
; US-09-352-616A-44

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Alignment Scores:
Pred. No.: 4,04e-42 Length: 852
Score: 519.50 Matches: 121
Percent Similarity: 50.97% Conservatives: 37
Best Local Similarity: 39.03% Mismatches: 73
Query Match: 26.24% Indels: 79
DB: 4 Gaps: 8

US-08-978-217-2 (1-371) x US-09-352-616A-44 (1-852)

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Qy 71 GlnValLeuAspTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerAlaIle 90
Db 850 CAGGTGGAGTGGCTCCATCCCTGGACCAACAGCAGTGGATGCAATGTATC 791
Qy 91 AspPheSerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluLeu 110
Db 790 CCTTCCAGAGTTCAGATCAACAGCGGAGCAGCTTTGAGCATGTGAGAGTTC 731
Qy 111 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr 129
Db 730 ACCCGGCGGAGCGGAGCGGCGGAGCAGCTTCTACAGCAACTTGCAGCATCTGAAGTGG 671
Qy 130 -----SerSerSerSerArgGluLeuSerTrpIleLeuLeuGluLysAspGly 147
Db 670 AACGGCCAGTGCAGTAGTGAC----- 650
Qy 148 MetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGln 167
Db 649 ---CTGTTCAGTCC-----ACACAC 632
Qy 168 GluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySerCysGlyAlaGly 187
Db 631 AATGTCTTCAAGACTGACCAACAGTACGCTT----- 599
Qy 188 AlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSer 207
Db 598 -----TCCATCATGAACACCTTGGAAAGACNAGAACTAT 566
Qy 208 HisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAspGlyLysLeuPhe 227
Db 565 TTATATGACCAACTATGTGTAGCAGATGATTG-----TTGGACAGCAAACTTTC 512
Qy 228 ProSerAspGlyPheArgAspCysLysLys----- 237
Db 511 -----TGCCGGGCTCAGATCTCCATGACACACCCAGTCACTT 473
Qy 238 -----GlyAspProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLys 255
Db 472 CCTGTTCAGAGTCACTGTATGAAAGAGGAGCAAGACCCCTGCCAAGTGCCACACC 413

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QY 256 GluTyrTrpAspCysLeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeu 275
Db 412 AAA-----AAGCACAACCCGAGAGGACTCACTTA 383
QY 276 TrpGluPheIleArgAspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrp 295
Db 382 TGGGAATTCATCCGCGACATCCTCTTGAACCCAGACAGAACCCAGGATTAATAAAATGG 323
QY 296 GluAsnArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrp 315
Db 322 GAGACCGATCTGAGGGCGTCTTCAGGTCTTGAATCAGAGCGAGTGGCTCAGCTATGG 263
QY 316 GlyGlnLysLysLysAsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyr 335
Db 262 GGTAAAGAAAGAAAGAACACACAGCAGCATGACCTATGAAAGCTCAGCCGAGCTATGAGATAT 203
QY 336 TyrTyrLysArgGluIleLeuGluArgValAspGlyArgGluLeuValTyrLysPheGly 355
Db 202 TACTACAAAGAGAAATCTGGAGCGGTGGATGGAGAGACTGGTATATATATTTGGG 143
QY 356 LysAsnSerSerGlyTrpLysGluGluGlu 365
Db 142 AAGAATGCCCGAGGATGGAGAGAAATGAA 113
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Search completed: February 12, 2004, 21:49:55
Job time : 105.522 secs


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QY 301 ACCCTCTGCAATTGTCCTTGGAGAGTGGCTCTGGTCTTTGGGCTCTGGGGACCAA 360
DB 396 ACCCTCTGCAATTGTCCTTGGAGAGTGGCTCTGGTCTTTGGGCTCTGGGGACCAA 455
QY 361 CTCATGCGCAGCTCGAGAGCTCACTTCAGAGCTCTTCTGATGAGCTCAGTGGATCAT 420
DB 456 CTCATGCGCAGCTCGAGAGCTCACTTCAGAGCTCTTCTGATGAGCTCAGTGGATCAT 515
QY 421 GAGCTGTGGAGAGAGTGGATGGCTTCCAGAGGCTCTAGACCCAGGGCCCTTTGAC 480
DB 516 GAGCTGTGGAGAGAGTGGATGGCTTCCAGAGGCTCTAGACCCAGGGCCCTTTGAC 575
QY 481 CAGGGAGCCCTTTGGCCAGAGAGCTGCTGGAAGAGCTGAGAGAGAGAGAGAGAGAG 540
DB 576 CAGGGAGCCCTTTGGCCAGAGAGCTGCTGGAAGAGCTGAGAGAGAGAGAGAGAGAG 635
QY 541 CCCGGAGCTGTGGCGAGAGAGCCCTTCCCTGGAGAGCTGACGCTCTCCACCGCAGGG 600
DB 636 CCCGGAGCTGTGGCGAGAGAGCCCTTCCCTGGAGAGCTGACGCTCTCCACCGCAGGG 695
QY 601 ACTGGTGTCTTCGGAGCTCCCACTCTCTGAGAGCTCCGCTGGAAGTGAAGTGAAGT 660
DB 696 ACTGGTGTCTTCGGAGCTCCCACTCTCTGAGAGCTCCGCTGGAAGTGAAGTGAAGT 755
QY 661 CCCAGTGTGGAGAGAGCTCTTCCCGAGAGAGCTGCTGAGTGAAGAGAGAGAGAGAG 720
DB 756 CCCAGTGTGGAGAGAGCTCTTCCCGAGAGAGCTGCTGAGTGAAGAGAGAGAGAGAG 815
QY 721 AAGCAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 816 AAGCAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 875
QY 781 CTCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 876 CTCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 935
QY 841 GACATCTCTATCCACCCGGAGCTCAAGAGAGGCTCATGAAGTGGAGAGATCGGCATGAA 900
DB 936 GACATCTCTATCCACCCGGAGCTCAAGAGAGGCTCATGAAGTGGAGAGATCGGCATGAA 995
QY 901 GGGCTCTTCAAGTCTCTGGCTCGAGGCTGTGGCCCACTATGAGGAGAGAGAGAGAG 960
DB 996 GGGCTCTTCAAGTCTCTGGCTCGAGGCTGTGGCCCACTATGAGGAGAGAGAGAGAG 1055
QY 961 AACAGCAACATGACTACGAGAGAGCTGAGCGGAGCTGAGGAGTACTACTACAAAGGGAG 1020
DB 1056 AACAGCAACATGACTACGAGAGAGCTGAGCGGAGCTGAGGAGTACTACTACAAAGGGAG 1115
QY 1021 ATCTTGAAACGGGTGGATGGCCGAGTCTGCTTACAAAGTTTGGCAAAAGTCAAGCGGC 1080
DB 1116 ATCTTGAAACGGGTGGATGGCCGAGTCTGCTTACAAAGTTTGGCAAAAGTCAAGCGGC 1175
QY 1081 TGGAGAGAGAGAGAGTCTTCCAGAGTGGAGTGA 1116
DB 1176 TGGAGAGAGAGAGAGTCTTCCAGAGTGGAGTGA 1211

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RESULT 2
US-09-570-593-4
; Sequence 4, Application US/09570593
; Patent No. 6566063
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Xie, Hong
; APPLICANT: Harrow, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14

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; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (96)...(1211)
; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)
; OTHER INFORMATION: protein.
US-09-570-593-4

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Query Match 100.0%; Score 1116; DB 4; Length 1907;
Best Local Similarity 100.0%; Pred. No. 1.6e-273;
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTATAGCAACTACTTTCAGTGGGATGTACAGC 60
DB 96 ATGGCTGCAACCTGTGAGATTAGCAACATTTTATAGCAACTACTTTCAGTGGGATGTACAGC 155
QY 61 TCGGAGGACTCCACCCCTGGCTCTGTTCCTCCCTCTGCTCCACCTTTGGGGCGGATGTTG 120
DB 156 TCGGAGGACTCCACCCCTGGCTCTGTTCCTCCCTCTGCTCCACCTTTGGGGCGGATGTTG 215
QY 121 GTACTGACCCCTGAGCAACCCCGAGATGTCTATTGAGGGGTACAGAGAGGCGAGCTGGT 180
DB 216 GTACTGACCCCTGAGCAACCCCGAGATGTCTATTGAGGGGTACAGAGAGGCGAGCTGGT 275
QY 181 GGGGAACAGCCCCAGTTCCTGTCGAAGACGAGGCTTCTGGAGTGGATCAGTACCAAGTG 240
DB 276 GGGGAACAGCCCCAGTTCCTGTCGAAGACGAGGCTTCTGGAGTGGATCAGTACCAAGTG 335
QY 241 GAGAGAGCAAGTACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
DB 336 GAGAGAGCAAGTACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 395
QY 301 ACCCTCTGCAATTGTCCTTGGAGAGTGGCTCTGGTCTTTGGGCTCTGGGGACCAA 360
DB 396 ACCCTCTGCAATTGTCCTTGGAGAGTGGCTCTGGTCTTTGGGCTCTGGGGACCAA 455
QY 361 CTCATGCGCAGCTCGAGAGCTCACTTCAGAGCTCTTCTGATGAGCTCAGTGGATCAT 420
DB 456 CTCATGCGCAGCTCGAGAGCTCACTTCAGAGCTCTTCTGATGAGCTCAGTGGATCAT 515
QY 421 GAGCTGTGGAGAGAGTGGATGGCTTCCAGAGGCTCTAGACCCAGGGCCCTTTGAC 480
DB 516 GAGCTGTGGAGAGAGTGGATGGCTTCCAGAGGCTCTAGACCCAGGGCCCTTTGAC 575
QY 481 CAGGGAGCCCTTTGGCCAGAGAGCTGCTGGAAGAGCTGAGAGAGAGAGAGAGAGAGAG 540
DB 576 CAGGGAGCCCTTTGGCCAGAGAGCTGCTGGAAGAGCTGAGAGAGAGAGAGAGAGAGAG 635
QY 541 CCCGGAGCTGTGGCGAGAGAGCCCTTCCCTGGAGAGCTGACGCTCTCCACCGCAGGG 600
DB 636 CCCGGAGCTGTGGCGAGAGAGCCCTTCCCTGGAGAGCTGACGCTCTCCACCGCAGGG 695
QY 601 ACTGGTGTCTTCGGAGCTCCCACTCTCTGAGAGCTCCGCTGGAAGTGAAGTGAAGT 660
DB 696 ACTGGTGTCTTCGGAGCTCCCACTCTCTGAGAGCTCCGCTGGAAGTGAAGTGAAGT 755
QY 661 CCCAGTGTGGAGAGAGCTCTTCCCGAGAGAGCTGCTGAGTGAAGAGAGAGAGAGAG 720
DB 756 CCCAGTGTGGAGAGAGCTCTTCCCGAGAGAGCTGCTGAGTGAAGAGAGAGAGAGAG 815
QY 721 AAGCAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 816 AAGCAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 875
QY 781 CTCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 876 CTCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 935

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QY 841 GACATCTCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGATCGGCATGAA 900
DB 936 GACATCTCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGATCGGCATGAA 995
QY 901 GCGGCTTTCAAGTTCTCGCTCCGAGCTCGAGAGCTGTGGCCCAACTATGGGCCCAAAAGAAAAG 960
DB 996 GCGGCTTTCAAGTTCTCGCTCCGAGCTCGAGAGCTGTGGCCCAACTATGGGCCCAAAAGAAAAG 1055
QY 961 AACAGCAACATGACCTACGAGAGCTGAGCCGGCCATGAGGTACTACTACAAACGGGAG 1020
DB 1056 AACAGCAACATGACCTACGAGAGCTGAGCCGGCCATGAGGTACTACTACAAACGGGAG 1115
QY 1021 ATCTCGAAGCGGTGGATGGCCGGGACTCTGCTACAAAGTTGGCAAAACTCAAGCGGC 1080
DB 1116 ATCTCGAAGCGGTGGATGGCCGGGACTCTGCTACAAAGTTGGCAAAACTCAAGCGGC 1175
QY 1081 TGGAGGAGGAGAGAGTTCTCCAGAGTCGGAACCTGA 1116
DB 1176 TGGAGGAGGAGAGAGTTCTCCAGAGTCGGAACCTGA 1211

RESULT 3

US-08-746-789A-1

Sequence 1, Application US/08746789A

Patent No. 5789200

GENERAL INFORMATION:

APPLICANT: Iemall Kola, Martin J. Tymms, Christine DeBouck

TITLE OF INVENTION: A No. 5789200e1 Human ETS Family Member, BLF3

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: SmithKline Beecham Corporation

STREET: 709 Swedeland Road, P.O. Box 1539

CITY: King of Prussia

STATE: PA

COUNTRY: USA

ZIP: 19406-0939

COMPUTER READABLE FORM:

MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE

OPERATING SYSTEM: WINDOWS FOR WORKGROUPS

SOFTWARE: MICROSOFT WORD

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/746,789A

FILING DATE: NO. 5789200ember 15, 1996

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: William T. Han

REGISTRATION NUMBER: 34,344

REFERENCE/DOCKET NUMBER: ATG 50024

TELECOMMUNICATION INFORMATION:

TELEPHONE: 610 270 5219

TELEFAX: 610 270 4026

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1920

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

ANTI-SENSE: No

US-08-746-789A-1

Query Match 99.4%; Score 1109.6; DB 1; Length 1920;
Best Local Similarity 99.6%; Pred. No. 6.7e-272;
Matches 1112; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGAGATAGCAACATTTTAGCAACTACTTCAGTGGCGATGTACAGC 60
DB 115 ATGGCTGCAACCTGTGAGATAGCAACATTTTAGCAACTACTTCAGTGGCGATGTACAGC 174
QY 61 TCGGAGGACTCCACCTTGGCCCTCTGTTCCTCCCTGCTGCCACCTTTTGGGGCCGATGACTTG 120

DB 175 TCGGAGGACTCCACCTTGGCCCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCCGATGACTTG 234
QY 121 GTACTGACCTCAGCAACCCCGAGATGTCATTGGAGGGTACAGAGAAGCCAGCTGGTTG 180
DB 235 GTACTGACCTCAGCAACCCCGAGATGTCATTGGAGGGTACAGAGAAGCTTACTGGTTG 294
QY 181 GGGGAACAGCCCCAGTTCTGTGTCGAAGAGCGCAGGTTCTGGACTGGATCAAGATG 240
DB 295 GGGGAACAGCCCCAGTTCTGTGTCGAAGAGCGCAGGTTCTGGACTGGATCAAGATG 354
QY 241 GAGAAGAAACAATGACAGCAAGCCGATGTCATCTTCTCAGATGTCAGATGTCATGATGCGCC 300
DB 355 GAGAAGAAACAATGACAGCAAGCCGATGTCATCTTCTCAGATGTCAGATGTCATGATGCGCC 414
QY 301 ACCCTCTGCAATTTGGCCCTTGGAGAGTGCCTCTGGTCTTTGGCCCTCTGGGGGACCAA 360
DB 415 ACCCTCTGCAATTTGGCCCTTGGAGAGTGCCTCTGGTCTTTGGCCCTCTGGGGGACCAA 474
QY 361 CTCATGCCCAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGTCACTTGGATCAT 420
DB 475 CTCATGCCCAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGTCACTTGGATCAT 534
QY 421 GAGCTGCTGGAAGAGGATGGCATGGCTTCCAGGAGGGCCCTAGACCCAGGGCCCTTTGAC 480
DB 535 GAGCTGCTGGAAGAGGATGGCATGGCTTCCAGGAGGGCCCTAGACCCAGGGCCCTTTGAC 594
QY 481 CAGGGCAGCCCTTTGCCCAGAGAGTGTCTGAGAGCGTCTCAGCAAGCCAGCCCTTACAC 540
DB 595 CAGGGCAGCCCTTTGCCCAGAGAGTGTCTGAGAGCGTCTCAGCAAGCCAGCCCTTACAC 654
QY 541 CCGGGCAGCTGTGGCGCAGAGCCCTCCCTGCGCAGCTCTGAGCTCTCCACCCGAGG 600
DB 655 CCGGGCAGCTGTGGCGCAGAGCCCTCCCTGCGCAGCTCTGAGCTCTCCACCCGAGG 714
QY 601 ACTGTGCTTCTCGGAGCTCCCACTCTCAGACTCCGCTGCGAGTCACTGAGACTCTGAT 660
DB 715 ACTGTGCTTCTCGGAGCTCCCACTCTCAGACTCCGCTGCGAGTCACTGAGACTCTGAT 774
QY 661 CCCACTGATGGCAAGCTCTTCCCGCAGGATGTTTTCTGTCGACTGCAAGAGGGGATCCC 720
DB 775 CCCACTGATGGCAAGCTCTTCCCGCAGGATGTTTTCTGTCGACTGCAAGAGGGGATCCC 834
QY 721 AAGCAGGGAAGCGGAAACAGAGCCCGGCCCGCCGAAAGCTGAGCAAGAGTCTGGGACTGT 780
DB 835 AAGCAGGGAAGCGGAAACAGAGCCCGGCCCGCCGAAAGCTGAGCAAGAGTCTGGGACTGT 894
QY 781 CTCGAGGCAAGAGAGCAAGCAGCCCGCCAGAGCCCACTCTGTCGAGTTCATCCGG 840
DB 895 CTCGAGGCAAGAGAGCAAGCAGCCCGCCAGAGCCCACTCTGTCGAGTTCATCCGG 954
QY 841 GACATCTCTCATCCACCCGGAGCTCAACGAGGGCCCTCATGAAGTGGGAGAAATCGGCATGAA 900
DB 955 GACATCTCTCATCCACCCGGAGCTCAACGAGGGCCCTCATGAAGTGGGAGAAATCGGCATGAA 1014
QY 901 GGGCTCTTCAAGTTCTTGGCTCCGAGGCTGTGGCCCAACTATGGGCCCAAGAAAG 960
DB 1015 GGGCTCTTCAAGTTCTTGGCTCCGAGGCTGTGGCCCAACTATGGGCCCAAGAAAG 1074
QY 961 AACAGCAACATGACCTACGAGAGCTGAGCCGGCCCATGAGGTACTTACTACAAACCGGAG 1020
DB 1075 AACAGCAACATGACCTACGAGAGCTGAGCCGGCCCATGAGGTACTTACTACAAACCGGAG 1134
QY 1021 ATCTCGAAGCGGTGGATGGCCGGGACTCTGCTTCAAGTTTGGGCAAAACTCAAGCGGC 1080
DB 1135 ATCTCGAAGCGGTGGATGGCCGGGACTCTGCTTCAAGTTTGGGCAAAACTCAAGCGGC 1194
QY 1081 TGGAGGAGGAGAGAGTTCTTCCAGAGTCGGAACCTGA 1116
DB 1195 TGGAGGAGGAGAGAGTTCTTCCAGAGTCGGAACCTGA 1230

RESULT 4


```

US-09-389-681-282
; Sequence 282, Application US/09389681A
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yuqin, Jiang
; APPLICANT: Dillion, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C3
; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-389-681-282

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Query Match	44.7%	Score	499.4	DB	4	Length	502
Best Local Similarity	99.8%	Pred. No.	1.8e-117				
Matches	500	Conservative	0	Mismatches	1	Indels	0
Qy	549	CTGTGGCCAGAGCCCCCTCCCTGCGACGCTCTGACGCTCCACCGCAGGAGCTGTGTC	608				
Db	2	CTGTGGCCAGAGCCCCCTCCCGGACGCTCTGACGCTCCACCGCAGGAGCTGTGTC	61				
Qy	609	TTTCTCGGAGCTCCCACTCCTCAGACTCCGCTGGAAGTGAAGTGGACCTGGATCCCACTGA	668				
Db	62	TTTCTCGGAGCTCCCACTCCTCAGACTCCGCTGGAAGTGAAGTGGACCTGGATCCCACTGA	121				
Qy	669	TGGCAAGCTTTCCCGACGAGTGTGTTTCTGTGACTCAAGAAAGGGGATCCCAAGCAGG	728				
Db	122	TGGCAAGCTTTCCCGACGAGTGTGTTTCTGTGACTCAAGAAAGGGGATCCCAAGCAGG	181				
Qy	729	GAAGCGGAAACGAGGCGCGCCCGAAGACTGAGCAAGAGTACTGGGACTGTCTCGAGGG	788				
Db	182	GAAGCGGAAACGAGGCGCGCCCGAAGACTGAGCAAGAGTACTGGGACTGTCTCGAGGG	241				
Qy	789	CAAGAAGAGCAAGCAGCGCCCGACAGAGCACCCACCTGTGGGAGTTTCATCCGGGACATCCT	848				
Db	242	CAAGAAGAGCAAGCAGCGCCCGACAGAGCACCCACCTGTGGGAGTTTCATCCGGGACATCCT	301				
Qy	849	CATCCACCCGGAGCTCAACGAGGCGCTCATGAAGTGGGAGAAATCGGCATGAAGCGTCTT	908				
Db	302	CATCCACCCGGAGCTCAACGAGGCGCTCATGAAGTGGGAGAAATCGGCATGAAGCGTCTT	361				
Qy	909	CAAGTTCCTCGCTCCGAGGCTGTGGCCCAACTATGGGCCCAAGAAAGAAAGACAGCAA	968				
Db	362	CAAGTTCCTCGCTCCGAGGCTGTGGCCCAACTATGGGCCCAAGAAAGAAAGACAGCAA	421				
Qy	969	CATGACCTACGAGAGCTGAGCCGGGCGCATGAGTACTACTCAAAACGGGAGATCCTCGA	1028				
Db	422	CATGACCTACGAGAGCTGAGCCGGGCGCATGAGTACTACTCAAAACGGGAGATCCTCGA	481				
Qy	1029	ACGGTGGATGGCCGGGACT	1049				
Db	482	ACGGTGGATGGCCGGGACT	502				

RESULT 5
US-09-620-405B-282
; Sequence 282, Application US/09620405B
; Patent No. 6528054
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.

```

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C8
; CURRENT APPLICATION NUMBER: US/09/620,405B
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-620-405B-282

Query Match      44.7%; Score 499.4; DB 4; Length 502;
Best Local Similarity 99.8%; Pred. No. 1.8e-117;
Matches 500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      549  CTGTGGCGGAGGAGCCCCCTCCCTGGCAGCTCTGACGCTCCACCGCAGGAGCTGTGTGC 608
Db      2    CTGTGGCGGAGGAGCCCCCTCCCGGCGAGCTCTGACGCTCCACCGCAGGAGCTGTGTGC 61

Qy      609  TTCTCGGAGCTCCCACTCTCTCAGACTCCGGTGGAAAGTGACGTGGACCTGTGATCCCACTGA 668
Db      62  TTCTCGGAGCTCCCACTCTCTCAGACTCCGGTGGAAAGTGACGTGGACCTGTGATCCCACTGA 121

Qy      669  TGSCAAGACTCTTCCCGCAGCGATGGTTTTCGTGACTGCAGAAGGGGGATCCCCAAGCACGG 728
Db      122  TGSCAAGACTCTTCCCGCAGCGATGGTTTTCGTGACTGCAGAAGGGGGATCCCCAAGCACGG 181

Qy      729  GAAGCGGAAACGAGGGCGGCGCCGAAAGCTGACGAAGAAGTACTTGGAGACTGTCTCGAGGG 788
Db      182  GAAGCGGAAACGAGGGCGGCGCCGAAAGCTGACGAAGAAGTACTTGGAGACTGTCTCGAGGG 241

Qy      789  CAAGAAGAGCAAGCAGCGCCCGCAGAGCACCCACCTGTGGAGGTTTCATCGGGACATCCT 848
Db      242  CAAGAAGAGCAAGCAGCGCCCGCAGAGCACCCACCTGTGGAGGTTTCATCGGGACATCCT 301

Qy      849  CATTCACCCGGAGCTCAACGAGGGCCCTCATGAAGTGGGAGAAATCGGCATGAAGGCGTCTT 908
Db      302  CATTCACCCGGAGCTCAACGAGGGCCCTCATGAAGTGGGAGAAATCGGCATGAAGGCGTCTT 361

Qy      909  CAAGTTCTTCGCTCGAGGCTGTGGCCCAACTATGGGGCCAAAGAAAAAGAACAGCAA 969
Db      362  CAAGTTCTTCGCTCGAGGCTGTGGGCCCAACTATGGGGCCAAAGAAAAAGAACAGCAA 421

Qy      969  CATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTACTACAAACGGGAGATCCCTGGA 1028
Db      422  CATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTACTACAAACGGGAGATCCCTGGA 481

Qy      1029  ACGGGTGGATGGCGGCGACT 1049
Db      482  ACGGGTGGATGGCGGCGACT 502

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```

RESULT 6
US-09-339-338-282
; Sequence 282, Application US/09339338A
; Patent No. 6573368
; GENERAL INFORMATION:
; APPLICANT: Yuciu, Jiong
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C2
; CURRENT APPLICATION NUMBER: US/09/339,338A
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA

```


Db 122 TGGCAAGCTCTTCCAGCGATGTTTGTGACTGCAAGAGGGGATCCCAAGCACGG 181
QY 729 GAACCGGAACAGCGCCGCGCCGGAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGG 788
Db 182 GAACCGGAACAGCGCCGCGCCGGAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGG 241
QY 789 CAAGAAGCAAGCAAGCGCCGCGCCGGAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGG 848
Db 242 CAAGAAGCAAGCAAGCGCCGCGCCGGAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGG 301
QY 849 CATCCACCGGAGCTCAACAGAGGCGCTCATGAAGTGGGAGATCGGAGTGAAGGCGTCTT 908
Db 302 CATCCACCGGAGCTCAACAGAGGCGCTCATGAAGTGGGAGATCGGAGTGAAGGCGTCTT 361
QY 909 CAAGTCTCTGGCTCCGAGGCTGTGGGCCCAACTATATGGGGCCCAAGAGAGAGCAAGCAA 968
Db 362 CAAGTCTCTGGCTCCGAGGCTGTGGGCCCAACTATATGGGGCCCAAGAGAGAGCAAGCAA 421
QY 969 CATGACTACAGAGAGCTGAGCGCGGCGCATGAGTACTACTACAAAGGAGATCTGGA 1028
Db 422 CATGACTACAGAGAGCTGAGCGCGGCGCATGAGTACTACTACAAAGGAGATCTGGA 481
QY 1029 ACGGCTGATGGCGCGGACT 1049
Db 482 ACGGCTGATGGCGCGGACT 502

RESULT 9
US-09-020-956-44/c
; Sequence 44, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillin, David C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 852 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-44
Query Match 15.6%; Score 173.8; DB 3; Length 852;
Best Local Similarity 69.7%; Pred. No. 6.5e-35;
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 758 TGACCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGCAAGCAGCGCCGAGGCA 817
Db 450 TGAAGAGGCAAGACCCCTCCCAAGTGCCACCAAAAGCAACCCGAGGGGA 391
QY 818 CCCACCTGTGGAGTTTATCCGGGACATCTCTCATCCACCCGGAGCTCAACAGGGGCTCA 877
Db 390 CTCACCTATGGAGATTTCATCCGGGACATCTCTTGAACCCAGACAAGAACCCAGGATTA 331
QY 878 TGAAGTGGGCAATCGGCATGAGGCGTCTTCAAGTTCTTCCGCTCCGAGGCTGTGGCCC 937
Db 330 TAAATGGGAAGACCGATCTGAGGCGTCTTTCAGTTCTTGAATCAGAGGCGAGTGGCTC 271
QY 938 AACTATGGGGCCAAAGAAAAAGAAACAGCAACATGACCTACGAGAACTGAGCCGGCCA 997
Db 270 AGCTATGGGTAAAGAGAGAAACAGCAGAGCATGACCTATGAAAGCTCAGCCGAGCTA 211
QY 998 TGAGGTACTACTACAAAGGGAGATCTCTGGAACGGGTGGATGGCCGCGACTCGTCTACA 1057
Db 210 TGAGATATTACTACAAAGAGAAATCTTGGAGCGGTGTGGATGGACGAAGACTGGTATATA 151
QY 1058 AGTTTGGCAAAACTCAAGCGGCTGGAAGAGGGAAGA 1094
Db 150 AATTGGGAAGATGCCCGAGGATGGAGAGAAATGA 114

RESULT 10
US-09-030-607-44/c
; Sequence 44, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillin, David C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 852 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-030-607-44
Query Match 15.6%; Score 173.8; DB 3; Length 852;
Best Local Similarity 69.7%; Pred. No. 6.5e-35;
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 758 TGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGAGCAAGCAAGCGCCAGAGGCA 817
Db 450 TGAAGAAGGAGCAAGACCCCTGCAAGTGCACACAAAAGCACAACCCGAGAGGA 391
QY 818 CCCACTGTGGAGTTCATCCGGGACATCCATCCACCCGAGCTCAAGAGGCTCA 877
Db 390 CTCATTATGGGAATTCATCCGGGACATCCCTTGAACCCAGACAAGCCAGATTA 331
QY 878 TGAAGTGGAGAAATCCGATGAAGCGTCTTCAAGTTCCTCGCTCCGAGGCTGTGCC 937
Db 330 TAAATGGGAGAGACCGATCTGAGGCGTCTTCAAGTTCCTGAAATCAAGGACGTG 271
QY 938 TACTATGGGCAAGAAAGACACACATGACCTACAGAGCTGAGCGGCA 997
Db 270 AGCTATGGGTAAAGAGAGACACAGCAGCATGACCTATGAAGCTCAGCCGACTA 211
QY 998 TGAGGTACTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGGGACTCTCTACA 1057
Db 210 TGAGATATTACTACAAAGAGAAATTTCTGGAGCGTGTGGATGGAGAAAGACTGGTATATA 151
QY 1058 AGTTTGGCAAAACTCAAGCGCTGGAAGGAGGAAGA 1094
Db 150 AATTTGGGAAGATGCCGAGGATGGAGAGAAATGA 114

RESULT 11

US-09-439-313-44/c

; Sequence 44, Application US/09439313

; Patent No. 6329505

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan Louise

; APPLICANT: Jiang Yuqi

; APPLICANT: Reed, Steven G.

; APPLICANT: Kalos, Michael

; APPLICANT: Fanger, Gary

; APPLICANT: Retter, Mark

; APPLICANT: Solk, John

; APPLICANT: Day, Craig

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND

; FILE REFERENCE: 210121.427C9

; CURRENT APPLICATION NUMBER: US/09/439,313

; CURRENT FILING DATE: 1999-11-12

; NUMBER OF SEQ ID NOS: 575

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 44

; LENGTH: 852

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (1)-(852)

; OTHER INFORMATION: n = A,T,C or G

US-09-439-313-44

Query Match 15.6%; Score 173.8; DB 4; Length 852;
Best Local Similarity 69.7%; Pred. No. 6.5e-35;
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 758 TGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGAGCAAGCAAGCGCCAGAGGCA 817
Db 450 TGAAGAAGGAGCAAGACCCCTGCAAGTGCACACAAAAGCACAACCCGAGAGGA 391
QY 818 CCCACTGTGGAGTTCATCCGGGACATCCCTATCCACCCGAGCTCAACGAGGCTCA 877
Db 390 CTCATTATGGGAATTCATCCGGGACATCCCTTGAACCCAGACAAGNACCAGATTA 331
QY 878 TGAAGTGGAGAAATCCGATGAAGCGTCTTCAAGTTCCTCGCTCCGAGGCTGTGCC 937
Db 330 TAAATGGGAGAGACCGATCTGAGGCGTCTTCAAGTTCCTGAAATCAAGGACGTG 271

QY 938 AACTATGGGGCCAAAGAAAAAGAAACAGCAACATGACCTACGAGAAGCTGAGCCGGGCA 997
Db 270 AGCTATGGGTAAAGAGAGAAACACAGCAGCATGACCTATGAAAAGCTCAGCCGAGCTA 211
QY 998 TGAGGTACTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGGGACTCTCTACA 1057
Db 210 TGAGATATTACTACAAAGAGAAATTTCTGGAGCGTGTGGATGGAGAAAGACTGGTATATA 151
QY 1058 AGTTTGGCAAAACTCAAGCGCTGGAAGGAGGAAGA 1094
Db 150 AATTTGGGAAGATGCCGAGGATGGAGAGAAATGA 114

RESULT 12

US-09-352-616A-44/c

; Sequence 44, Application US/09352616A

; Patent No. 6395278

; GENERAL INFORMATION:

; APPLICANT: Dillon, Davin C.

; APPLICANT: Harlocker, Susan Louise

; APPLICANT: Jiang, Yuqi

; APPLICANT: Xu, Jiangchun

; APPLICANT: Mitcham, Jennifer Lynn

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

; FILE REFERENCE: 210121.427C8

; CURRENT APPLICATION NUMBER: US/09/352,616A

; CURRENT FILING DATE: 1999-07-13

; NUMBER OF SEQ ID NOS: 472

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 44

; LENGTH: 852

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (1)-(852)

; OTHER INFORMATION: n = A,T,C or G

US-09-352-616A-44

Query Match 15.6%; Score 173.8; DB 4; Length 852;
Best Local Similarity 69.7%; Pred. No. 6.5e-35;
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 758 TGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGAGCAAGCAAGCGCCAGAGGCA 817
Db 450 TGAAGAAGGAGCAAGACCCCTGCAAGTGCACACAAAAGCACAACCCGAGAGGA 391
QY 818 CCACCTGTGGAGTTCATCCGGGACATCTCTCATCCACCCGAGCTCAACGAGGCTCA 877
Db 390 CTCATTATGGGAATTCATCCGGGACATCTCTTGAACCCAGACAAGAACCCAGATTA 331
QY 878 TGAAGTGGGAGATCGGCATGAAGCGTCTTCAAGTTCCTCGCTCCGAGGCTGTGGCC 937
Db 330 TAAATGGGAAGACCGATCTGAGGCGTCTTCAAGTTCCTTGAATCAGAGGAGTGGCTC 271
QY 938 AACTATGGGGCCAAAGAAAAAGAAACAGCAACATGACCTACGAGAAGCTGAGCCGGGCA 997
Db 270 AGCTATGGGTAAAGAGAGAAACACAGCAGCATGACCTATGAAAAGCTCAGCCGAGCTA 211
QY 998 TGAGGTACTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGGGACTCTCTACA 1057
Db 210 TGAGATATTACTACAAAGAGAAATTTCTGGAGCGTGTGGATGGAGAAAGACTGGTATATA 151
QY 1058 AGTTTGGCAAAACTCAAGCGCTGGAAGGAGGAAGA 1094
Db 150 AATTTGGGAAGATGCCGAGGATGGAGAGAAATGA 114

RESULT 13

US-09-232-149A-44/c

; Sequence 44, Application US/09232149A

Patent No. 6465611
 GENERAL INFORMATION:
 APPLICANT: Xu, Jiangchun
 APPLICANT: Dillon, Davin C.
 APPLICANT: Mitcham, Jennifer Lynn
 TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
 FILE OF INVENTION: CANCER AND METHODS FOR THEIR USE
 FILE REFERENCE: 210121.427C6
 CURRENT APPLICATION NUMBER: US/09/232.149A
 CURRENT FILING DATE: 1999-01-15
 NUMBER OF SEQ ID NOS: 338
 SOFTWARE: Fast-Seq for Windows Version 3.0
 SEQ ID NO 44
 LENGTH: 852
 TYPE: DNA
 ORGANISM: Homo sapien
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: (1)-(852)
 OTHER INFORMATION: n = A, T, C or G
 US-09-232-149A-44

Query Match 15.6%; Score 173.8; DB 4; Length 852;
 Best Local Similarity 69.7%; Pred. No. 6.5e-35;
 Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 758 TGACCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGCAGCAGCGGCCAGAGGCA 817
 Db 450 TGAAGAGGAGCAGACCCCTCCCAAGTGCCACACCAAAAGCACAACCCGAGAGGA 391
 QY 818 CCCACCTGTGGGAGTTTCATCCGGGACATCTCATCCACCGGAGCTCAACGAGGGCTCA 877
 Db 390 CTCACCTATGGGAATTCATCCGGGACATCTCTTGAACCCAGACAAGACCCAGGATTA 331
 QY 878 TGAAGTGGGAGATCGGCATGAGGGGTCTTCAAGTTCTCGGCTCGAGGGCTGTGGCCC 937
 Db 330 TAAATGGGAGACCCGATCTGAGGGCGCTCTTCAGGTTCTTGAATCAGAGGAGTGGCTC 271
 QY 938 AACTATGGGCGCAAAAGAAAAAGAAAGAACAGCAACATGACCTACGAGAGAGCTGAGCCGGGCA 997
 Db 270 AGCTATGGGTAAAGAAAGAAAGAAAGAAAGAAAGAAAGCTGAGAGAGCTGAGCCGAGCTA 211
 QY 998 TGAGGTACTACTACAAAGGGAGATCTCTGAAACGGGTGGATGCGCGGAGCTCGTCTACA 1057
 Db 210 TGAGATATTACTACAAAGAGAAATTCGAGGCGGTGTGGATGGACGAGAGACTGGTATATA 151
 QY 1058 AGTTTGCAGAAACTCAAGCGGCTGGAAGGAGGAAGA 1094
 Db 150 AATTGGGAGAGATGCCCGAGGATGGAGAGAAATGA 114

RESULT 14
 US-09-009-913-2
 Sequence 2, Application US/09009913
 Patent No. 6087485
 GENERAL INFORMATION:
 APPLICANT: Axys Pharmaceuticals, Inc.
 TITLE OF INVENTION: Asthma Related Genes
 NUMBER OF SEQUENCES: 339
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bozicevic & Reed, LLP
 STREET: 285 Hamilton Ave, Suite 200
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94301
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/009,913

FILING DATE: 21-JAN-1998
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Sherwood, Pamela J
 REGISTRATION NUMBER: 36,677
 REFERENCE/DOCKET NUMBER: SEQ-4P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650-327-3231
 TELEFAX: 650-327-3231
 TELEX:
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5427 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-09-009-913-2

Query Match 15.6%; Score 173.8; DB 3; Length 5427;
 Best Local Similarity 69.7%; Pred. No. 1.1e-34;
 Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 758 TGACCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGCAGCAGCGGCCAGAGGCA 817
 Db 709 TGAAGAGGAGCAGACCCCTCCCAAGTGCCACACCAAAAGCACAACCCGAGAGGA 768
 QY 818 CCCACCTGTGGGAGTTTCATCCGGGACATCTCTCATCCACCGGAGCTCAACGAGGGCTCA 877
 Db 769 CTCACCTATGGGAATTCATCCGGGACATCTCTTGAACCCAGACAAGACCCAGGATTA 828
 QY 878 TGAAGTGGGAGATCGGCATGAGGGGTCTTCAAGTTCTCGGCTCGAGGGCTGTGGCCC 937
 Db 829 TAAATGGGAGACCCGATCTGAGGGCGCTCTTCAGGTTCTTGAATCAGAGGAGTGGCTC 888
 QY 938 AACTATGGGCGCAAAAGAAAAAGAAAGAACAGCAACATGACCTACGAGAGAGCTGAGCCGGGCA 997
 Db 889 AGCTATGGGTAAAGAAAGAAAGAAAGAAAGAAAGAAAGCTGAGAGAGCTGAGCCGAGCTA 948
 QY 998 TGAGGTACTACTACAAAGGGAGATCTCTGAAACGGGTGGATGCGCGGAGCTCGTCTACA 1057
 Db 949 TGAGATATTACTACAAAGAGAAATTCGAGGCGGTGTGGATGGACGAGAGACTGGTATATA 1008
 QY 1058 AGTTTGCAGAAACTCAAGCGGCTGGAAGGAGGAAGA 1094
 Db 1009 AATTGGGAGAGATGCCCGAGGATGGAGAGAAATGA 1045

RESULT 15
 US-09-009-913-3
 Sequence 3, Application US/09009913
 Patent No. 6087485
 GENERAL INFORMATION:
 APPLICANT: Axys Pharmaceuticals, Inc.
 TITLE OF INVENTION: Asthma Related Genes
 NUMBER OF SEQUENCES: 339
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bozicevic & Reed, LLP
 STREET: 285 Hamilton Ave, Suite 200
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94301
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/009,913

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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 12, 2004, 21:34:51 ; Search time 583.817 Seconds
(without alignments)
2334.540 Million cell updates/sec

Title: US-08-978-217-16_COPY_2_371

Perfect score: 1980

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	Fgapop 6.0	Fgapext 7.0
	Delop 6.0	Delext 7.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
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-XGAPOP=6 -XGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications NA:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description

ALIGNMENTS

RESULT 1

US-10-097-340-74
; Sequence 74, Application US/10097340
; Publication No. US20030087250A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVAPU
; APPLICANT: Sebastian HOERSCH
; APPLICANT: Shubhangi KAMATKAR
; APPLICANT: Steve G. KOVATZ
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Ami SEN
; APPLICANT: Peter VEIBY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. EAST, Jr.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumel ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification, Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: MRI-030

1	1707	86.2	1907	15	US-10-097-340-74	Sequence 74, Appl
2	1707	86.2	1915	10	US-09-964-824A-101	Sequence 101, App
3	1707	86.2	1915	10	US-09-964-824A-563	Sequence 563, App
4	1707	86.2	1915	10	US-09-880-107-3420	Sequence 3420, Ap
5	1707	86.2	1915	10	US-09-967-788A-192	Sequence 192, App
6	1707	86.2	1917	9	US-09-922-217-1105	Sequence 1105, Ap
7	1707	86.2	1917	14	US-10-025-380-1105	Sequence 1105, App
8	1707	86.2	1956	12	US-10-064-049-756	Sequence 756, App
9	1707	86.2	1996	9	US-09-925-301-207	Sequence 207, App
10	1458.5	73.7	2269	12	US-10-131-410-64	Sequence 64, Appl
C 11	928.5	46.9	626	9	US-09-922-217-853	Sequence 853, App
C 12	928.5	46.9	626	10	US-09-833-263-853	Sequence 853, App
C 13	928.5	46.9	626	14	US-10-025-380-944	Sequence 944, App
C 14	833.5	42.1	563	9	US-09-922-217-944	Sequence 944, App
C 15	833.5	42.1	563	14	US-09-833-263-944	Sequence 944, App
C 16	833.5	42.1	563	14	US-10-025-380-944	Sequence 944, App
C 17	803	40.6	502	9	US-09-604-287A-282	Sequence 282, App
C 18	803	40.6	502	10	US-09-339-338-282	Sequence 282, App
C 19	803	40.6	502	11	US-09-551-621-282	Sequence 282, App
C 20	803	40.6	502	13	US-10-124-805-282	Sequence 282, App
C 21	803	40.6	502	14	US-10-007-805-282	Sequence 282, App
C 22	803	40.6	502	15	US-10-076-622-282	Sequence 282, App
C 23	765	38.6	499	10	US-09-998-598-2290	Sequence 2290, Ap
C 24	590.5	29.8	1426	9	US-09-925-297-309	Sequence 309, App
C 25	590.5	29.8	1426	15	US-10-106-698-935	Sequence 935, App
C 26	590.5	29.8	1426	15	US-09-764-864-320	Sequence 320, App
C 27	550.5	27.8	437	10	US-09-998-598-2216	Sequence 2216, Ap
C 28	543	27.4	852	9	US-09-759-143-44	Sequence 44, Appl
C 29	543	27.4	852	9	US-09-780-669-44	Sequence 44, Appl
C 30	543	27.4	852	9	US-09-030-606-44	Sequence 44, Appl
C 31	543	27.4	852	9	US-09-822-827-44	Sequence 44, Appl
C 32	543	27.4	852	9	US-09-115-453-44	Sequence 44, Appl
C 33	543	27.4	852	10	US-09-232-880-44	Sequence 44, Appl
C 34	543	27.4	852	10	US-09-835-793-44	Sequence 44, Appl
C 35	543	27.4	852	10	US-09-895-814-44	Sequence 44, Appl
C 36	543	27.4	852	13	US-10-144-678A-44	Sequence 44, Appl
C 37	543	27.4	852	13	US-10-294-025-44	Sequence 44, Appl
C 38	543	27.4	852	14	US-10-012-896-44	Sequence 44, Appl
C 39	543	27.4	852	15	US-10-010-940-44	Sequence 44, Appl
C 40	527.5	26.6	355	10	US-09-867-701-4818	Sequence 4818, Ap
C 41	483.5	24.4	1435	12	US-10-292-798-1601	Sequence 1601, Ap
C 42	483.5	24.4	1435	13	US-10-017-161-1953	Sequence 1953, Ap
C 43	442	22.3	5045	10	US-09-974-298-12	Sequence 12, Appl
C 44	435.5	22.0	275	15	US-10-060-036-3261	Sequence 3261, Ap
C 45	435.5	22.0	1898	12	US-10-282-596-203	Sequence 203, App

; CURRENT APPLICATION NUMBER: US/10/097,340
 ; CURRENT FILING DATE: 2002-03-14
 ; PRIOR APPLICATION NUMBER: 60/276,025
 ; PRIOR FILING DATE: 2001-03-14
 ; PRIOR APPLICATION NUMBER: 60/325,149
 ; PRIOR FILING DATE: 2001-09-26
 ; PRIOR APPLICATION NUMBER: 60/276,026
 ; PRIOR FILING DATE: 2001-03-14
 ; PRIOR APPLICATION NUMBER: 60/324,967
 ; PRIOR FILING DATE: 2001/09/26
 ; PRIOR APPLICATION NUMBER: 60/311,732
 ; PRIOR FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: 60/325,102
 ; PRIOR FILING DATE: 2001-09-26
 ; PRIOR APPLICATION NUMBER: 60/323,580
 ; PRIOR FILING DATE: 2001-09-19
 ; NUMBER OF SEQ ID NOS: 363
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 74
 ; LENGTH: 1907
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-097-340-74

Alignment Scores:
 Pred. No.: 1.18e-189 Length: 1907
 Score: 1707.00 Matches: 322
 Percent Similarity: 92.72% Conservative: 22
 Best Local Similarity: 86.79% Mismatches: 25
 Query Match: 86.21% Indels: 2
 DB: 15 Gaps: 2

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 Db 99 GCTGCAACCTGTGAGATTAGCAATTTTAGCAACTACTTTCAGTCCGATGTACAGCTCG 158
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 Db 159 GAGGATTCACCTGGCTCTGTTCCTCCCTGTGCTGACCTTTGGGGCCGATGACTTGGTA 218
 QY 40 LeuThrLeuAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerThrThrSer 59
 Db 219 CTGACCTGAGCAACCCAGAGTGTATGGAGGGGTACAGAGAGCCAGCTGTTGGGG 278
 QY 60 GluArgProGlnPheThrSerLysThrGlnValLeuGluThrLysSerThrGlnValGlu 79
 Db 279 GAACAGCCCGAGTCTGTGTCGAAGACGCGAGTTCTGGACTGGATCAGCTACCAAGTGGAG 338
 QY 80 LysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99
 Db 339 AAGACAAAGTACGACGACGAGCCATGACTTCTCAGATGTGACATGATGGGCCACC 398
 QY 100 LeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119
 Db 399 CTCTGCAATTTGCTCTGAGGAGCTGCTGCTCTTTGGGCTCTGGGGGACCAACATC 458
 QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerThrLysLeuGlu 139
 Db 459 CATGCCACGCTGGAGACCTCACTTCAGCTCTTCTGATGAGCTCAGTTGGATTCATTGAG 518
 QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyPropheAsp 159
 Db 519 CTGCTGGAGAAGGATGTCATGGCTTCCAGGAGGCCCTA---GACCCAGGGCCCTTTCAC 575
 QY 160 GluGlySerProPheAlaGlnGluLeuAspAspGlyArgGlnAlaSerProTyrTyr 179
 Db 576 CAGGGAGCCCCCTTTGCCCCAGGAGCTCTGAGAGCGGTCCTGAGAGCGGTCAGCCCTTACCAC 635
 QY 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
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QY 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyCysSerAspValAspLeuAsp 219
 Db 696 ACTGGTCTTCTCGAGCTCCCACTCTCTAGACTCCGGTGGAGAGTACGCTGGACCTGGAT 755
 QY 220 LeuThrGluSerLysValPheProArgAspAspPheThrAspTyrLysLysGlyGluPro 239
 Db 756 CCACACTGATGGCAAGCTCTTCCCGCAGCATGGTTTTCGTGACTGCAAGAGGGGATCCC 815
 QY 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259
 Db 816 AAGCACGGGAAGCGGAACAGGCGGCCCGCCGAAAGCTGAGCAAGAGTACTGGGACTGT 875
 QY 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 279
 Db 876 CTCGAGGGCAAGAGAGCAAGCAGCGCCAGAGGACCCACCCTGTGGGAGTTTCATCCGG 935
 QY 280 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
 Db 936 GACATCTCTATCCACCGGAGCTCAACGAGGGGCTCATGAAGTGGGAGATCGGCATGAA 995
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 QY 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 339
 Db 1056 AACACGAACATGACTTACGAGAGAGCTGAGCGGGGCCATGAGGTACTACTACAAACGGAG 1115
 QY 340 IleLeuGluArgValAspGlyArgLeuValTyrLysPheGlyLysAsnSerSerGly 359
 Db 1116 ATCTCGAAGCGGTGGATGGCGGCGACTGCTCTACAGTTTGGCAAAACTCAAGCGGC 1175

RESULT 2

US-09-964-824A-101
 ; Sequence 101, Application US/09964824A
 ; Patent No. US20020102531A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Horrigan, Stephen
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
 ; TITLE OF INVENTION: Sets
 ; FILE REFERENCE: 689290-73
 ; CURRENT APPLICATION NUMBER: US/09/964,824A
 ; CURRENT FILING DATE: 2001-09-27
 ; PRIOR APPLICATION NUMBER: US/60/236,033
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US/60/236,032
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US/60/236,028
 ; PRIOR FILING DATE: 2000-09-28
 ; NUMBER OF SEQ ID NOS: 583
 ; SOFTWARE: Patent in version 3.0
 ; SEQ ID NO 101
 ; LENGTH: 1915
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-964-824A-101

Alignment Scores:
 Pred. No.: 1.19e-189 Length: 1915
 Score: 1707.00 Matches: 322
 Percent Similarity: 92.72% Conservative: 22
 Best Local Similarity: 86.79% Mismatches: 25
 Query Match: 86.21% Indels: 2
 DB: 10 Gaps: 2

US-08-978-217-16_COPY_2_371 (1-370) x US-09-964-824A-101 (1-1915)

QY 1 AlaAlaThrCysGluLeuSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20

Db 123 GCTGCAACCTGTGAGATTAGCAACATTTTACCAACTACTTCAGTGGCATGTACAGCTCG 182
Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
Db 183 GAGGACTCCACCTGGCTCTGTTCCCTCTGTCACCACTTTGGGGCGATGACTTTGTA 242
Qy 40 LeuThrLeuAsnAsnGlnMetThrLeuGluGlyProGluLeuAlaSerTrpThrSer 59
Db 243 CTGACCTGAGCAACCCAGATGTCANTGGAGGGTACAGAGAGCCAGCTGGTTGGG 302
Qy 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerTrpGlnValGlu 79
Db 303 GAACAGCCCACTTCTGGTGAAGACGAGGTTCTGGACTGGATCAGCTACCAAGTGGAG 362
Qy 80 LysAsnLysTyAspAlaSerSerLeuAspPheSerArgCysAsnMetAspGlyAlaThr 99
Db 363 AAGAACAAGTACGAGCAGCCATCTGACTTCTCAGCATGTGACATGATGGCGCCACC 422
Qy 100 LeuCysSerCysAlaLeuGluGlnLeuValPheGlyProLeuGlyAspGlnLeu 119
Db 423 CTCTGCAATGTGGCTTGGAGAGCTGGCTGTGCTTTGGGCTCTGGGGGACCACTC 482
Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpLysLeuGlu 139
Db 483 CATGCCAGCTGGAGACCTCACTTCCAGCTTCTTGATGAGCTCAGTTGATCATTGAG 542
Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159
Db 543 CTGCTGGAGAGGATGGATGGCTTCCAGGAGGCCCTA---GACCCAGGGCCCTTTGAC 599
Qy 160 GlnGlySerProPheAlaGlnGlnLeuLeuAspAspGlyArgGlnAlaSerProTrpTyr 179
Db 600 CAGGCGAGCCCTTTGCCAGAGAGTGTGTGACGACGCTGACGAGCCGCTTACCAAGCCCTTACCAC 659
Qy 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
Db 660 CCGCGCAGCTGTGGCGCAGGAGCCCTTCCCTGGCAGCTCTGAGCTCTCCACCGCAGG 719
Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219
Db 720 ACTGCTGCTTCCGAGCTCCACCTCCAGACTCCGCTGGAAGTACGCTGGAGCTGGAT 779
Qy 220 LeuThrGluSerLysValPheProArgAspAspPheThrAspTyrLysLysGlyGluPro 239
Db 780 CCCACTGATGCAAGCTCTTCCAGCAGCATGCTTTCTGAGCTGCAAGAGGGGATCCC 839
Qy 240 LysHisGlyLysArgGlyArgGlyArgProArgLysLeuSerLysGlyTyrTrpAspCys 259
Db 840 AAGCAGCGGAACGGAACGAGCGCGCCGCGGAAAGCTGAGCAAAAGAGTACTGGGAGCTG 899
Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279
Db 900 CTCGAGGCGCAGAAGAGCAGCAGCGCGCCAGAGCCACCTCTGGAGATTTCATCGG 959
Qy 280 AspLeuLeuHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
Db 960 GACATCTCTCATCCACCGAGCTCAACGAGGCGCTCATGAAGTGGAGATCGGCATGAA 1019
Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlnLysLysLys 319
Db 1020 GCGGCTTCAAGTCTCGGCTCCAGGCTGTGGCCCACTATGGGCGCAAAAGAAAAG 1079
Qy 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 339
Db 1080 AACAGCAACATGACCTACGAGAAGCTGAGCGGGCCATGAGTACTACTACAAACGGGAG 1139
Qy 340 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly 359
Db 1140 ATCTCGGAACCGGTTGATGGCGCGGAGCTCGTCTACAAGTTTGGCAAAACTCAAGCGGC 1199
Qy 360 TrpLysGluGluGluValGlyLysSerArgAsn 370

Db 1200 TGGAAAGGAGGAGAGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 3

US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 593
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563

Alignment Scores:
Pred. No.: 1,19e-189 Length: 1915
Score: 1707.00 Matches: 322
Percent Similarity: 92.72% Conservative: 22
Best Local Similarity: 86.79% Mismatches: 25
Query Match: 86.21% Indels: 2
DB: Gaps: 2

US-08-978-217-16_COPY_2_371 (1-370) x US-09-964-824A-563 (1-1915)

Qy 1 AlaAlaThrCysGlnLysSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20
Db 123 GCTGCAACCTGTGAGATTAGCAACATTTTACCAACTACTTCAGTGGCATGTACAGCTCG 182
Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
Db 183 GAGGACTCCACCTGGCTCTGTTCCCTCTGTCACCACTTTGGGGCGATGACTTTGTA 242
Qy 40 LeuThrLeuAsnAsnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59
Db 243 CTGACCTGAGCAACCCAGATGTCANTGGAGGGTACAGAGAGCCAGCTGGTTGGG 302
Qy 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerTrpGlnValGlu 79
Db 303 GAACAGCCCACTTCTGGTGAAGACGAGGTTCTGGACTGGATCAGCTACCAAGTGGAG 362
Qy 80 LysAsnLysTyAspAlaSerSerLeuAspPheSerArgCysAsnMetAspGlyAlaThr 99
Db 363 AAGAACAAGTACGAGCAGCCATCTGACTTCTCAGCATGTGACATGATGGCGCCACC 422
Qy 100 LeuCysSerCysAlaLeuGluGlnLeuValPheGlyProLeuGlyAspGlnLeu 119
Db 423 CTCTGCAATGTGGCTTGGAGAGTGGCTGTGCTTTGGGCTCTGGGGGACCACTC 482
Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpLysLeuGlu 139
Db 483 CATGCCAGCTGGAGACCTCACTTCCAGCTTCTTGATGAGCTCAGTTGATCATTGAG 542
Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159
Db 543 CTGCTGGAGAGGATGGATGGCTTCCAGGAGGCCCTA---GACCCAGGGCCCTTTGAC 599
Qy 160 GlnGlySerProPheAlaGlnGlnLeuLeuAspAspGlyArgGlnAlaSerProTrpTyr 179
Db 600 CAGGCGAGCCCTTTGCCAGAGAGTGTGTGACGACGCTGACGAGCCGCTTACCAC 659

Qy 180 CysSerThrTyrGlyProGluAlaProSerProGlySerSerAspValSerThrAlaArg 199
 Db 660 CCGCGCAGCTGTGGCGCAGGAGCCCCCTCCCTGGCAGCTCTGACGCTCCACCGCAGGG 719
 Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219
 Db 720 ACTGGTCTTCTCGGAGCTCCCACTCTCCAGCTCCGGTGGAGTACGCTGACCTCGGAT 779
 Qy 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysLysGlyGluPro 239
 Db 780 CCCACTGATGCGAGCTCTCCCGCAGCGATGTTTTCGTGACTGCAAGAGGGGATCCC 839
 Qy 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259
 Db 840 AAGCACGGGAAGCGGAACGAGCGCGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGT 899
 Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279
 Db 900 CTCGAGGGCAAGAGACGACGACGCGCCCGAGAGGACCCACCTGTGGGAGTTCATCCGG 959
 Qy 280 AspileuLeuHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
 Db 960 GACATCTCTATCCACCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA 1019
 Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 319
 Db 1020 GGCTCTTCAAGTTCCTCCGCTCGAGGCTGTGGCCCACTATGGGCGCAAGAGAAAG 1079
 Qy 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 339
 Db 1080 AACAGCAACATGACCTACGAGAGAGCTGAGCGCGGCTCATGAGTACTACTACAAACGGGAG 1139
 Qy 340 IleLeuGluArgValAspGlyArgGluValGlyGluSerArgAsn 370
 Db 1200 TGGAGGAGGAGAGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 4

US-09-880-107-3420
 ; Sequence 3420, Application US/09880107
 ; Patent No. US20020142981A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Horne, Darci T.
 ; APPLICANT: Vockley, Joseph G.
 ; APPLICANT: Scherf, Uwe
 ; APPLICANT: Gene Logic, Inc.
 ; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
 ; FILE REFERENCE: 44921-5028-WO
 ; CURRENT APPLICATION NUMBER: US/09/880,107
 ; PRIOR FILING DATE: 2001-06-14
 ; PRIOR APPLICATION NUMBER: US 60/211,379
 ; PRIOR FILING DATE: 2000-06-14
 ; PRIOR APPLICATION NUMBER: US 60/237,054
 ; PRIOR FILING DATE: 2000-10-02
 ; NUMBER OF SEQ ID NOS: 3950
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3420
 ; LENGTH: 1915
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
 US-09-880-107-3420

Alignment Scores:

Pred. No.:	1,19e-189	Length:	1915
Scores:	1707.00	Matches:	322
Percent Similarity:	92.72%	Conservative:	22
Best Local Similarity:	86.79%	Mismatches:	25
Query Match:	86.21%	Indels:	2

DB: 10 Gaps: 2
 US-08-978-217-16_COPY_2_371 (1-370) x US-09-880-107-3420 (1-1915)
 Qy 1 AlaAlaThrCysGluLysSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20
 Db 123 GCTCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTACGTGGATGATGACGCTCG 182
 Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
 Db 183 GAGGACTCCACCCCTGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCCGATGACTTGGTA 242
 Qy 40 LeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59
 Db 243 CTGACCTCTGAGCAACCCCGAGATGTCTATGGAGGGTACAGAGAGGCGCAGCTGGTGGGG 302
 Qy 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerTyrGlnValGlu 79
 Db 303 GAACAGCCCCAGTTCCTGTGCAAGCGCAGGTTCTGGACTGGATCAGCTACCAAGTGGAG 362
 Qy 80 LysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99
 Db 363 AAGAACAGTACGACGAGCGCCATGACTTCTCACGATGTGACATGGATGGCGCCACC 422
 Qy 100 LeuCysSerCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeu 119
 Db 423 CTCTGCAATGTGCTTGGAGGCTGCTGTCTTGGGCTCTGGGGGAGCCCACTC 482
 Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpLysGlu 139
 Db 483 CATGCCAGCTGCGAGACCTCCTCCAGCTCTTCTGATGAGTCTGATGATGATGATGATGAT 542
 Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnLysSerLeuGlyAspLeuGlyProPheAsp 159
 Db 543 CTCTGGAAGAGGATGGATGGCTTCCAGAGGCCCTA---GACCCAGAGGCCCTTTGAC 599
 Qy 160 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyr 179
 Db 600 CAGGCGAGCCCTTTGCCAGGAGCTGCTGCAAGCGGTGAGCAAGCGAGCCCTTACCAC 659
 Qy 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
 Db 660 CCGCGCAGCTGTGGCGCAGGAGCCCCCTCCCTGGCAGCTCTGACGCTCTCCACCGCAGG 719
 Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219
 Db 720 ACTGGTCTTCTCGGAGCTCCCACTCTCAGACTCCGGTGGAGTACGCTGACCTGGAT 779
 Qy 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysLysGlyGluPro 239
 Db 780 CCCACTGATGCGAAGCTCTTCCCGCAGGATGGTTCGTGACTGCAAGAGGGGATGCC 839
 Qy 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259
 Db 840 AAGCACGGGAAGCGGAACGAGCGCGCCCGAAGCTGAGCAAGAGTACTGGGACTGT 899
 Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279
 Db 900 CTCGAGGGCAAGAGACGACGACGCGCCCGAGAGGACCCACCTGTGGGAGTTCATCCGG 959
 Qy 280 AspileuLeuHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
 Db 960 GACATCTCTATCCACCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA 1019
 Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 319
 Db 1020 GGCTCTTCAAGTTCCTCCGCTCGAGGCTGTGGCCCACTATGGGCGCAAGAGAAAG 1079
 Qy 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 339
 Db 1080 AACAGCAACATGACCTACGAGAGAGCTGAGCGCGGCTCATGAGTACTACTACAAACGGGAG 1139
 Qy 340 IleLeuGluArgValAspGlyArgGluValGlyGluSerArgAsnSerSerGly 359

305 GAACAGCCCGAGTTCTGGTCGAGAGCAGCAGGTTCTGGAGTCAGTACAGTACCAAGTGGAG 364
 QY 80 LysAsnLysThrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99
 Db 365 AAGACACAGTACGACCAAGCCCATTTGCTCTCAGCATGACATGATGGCCACC 424
 QY 100 LeuCysSerCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeu 119
 Db 425 CTCTGCAATGTGCTTGGAGAGTGGTCTGGTCTTGGGCTCTGGGGACCAACTC 484
 QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGlyArgGlnAlaSerProTyr 139
 Db 485 CATGCCACAGTGGAGACCTCACTTCCAGCTTCTTGATGAGCTCAGTTGATCATTCAG 544
 QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159
 Db 545 CTGCTGGAGAGATGGCATGCCCTTCCAGGAGGCCCTA--GACCCAGGGCCCTTTCAC 601
 QY 160 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyr 179
 Db 602 CAGGGCAGCCCTTTGCCAGGAGTGTCTGGACGAGCTCAGCAAGCCAGGCCCTTACCAC 661
 QY 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
 Db 662 CCGCGAGCTGTGGCGCAGAGCCCTTCCCTGGCAGCTCTGAGCTCTCCACCGCAGGG 721
 QY 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219
 Db 722 ACTGTGTCTTCTCGGAGCTTCCCACTCTCAGACTCCGCTGGAGTGAAGTGAAGTGGAT 781
 QY 220 LeuThrGluSerLysValPheProArgAspAspPheThrAspTyrLysGlyGluPro 239
 Db 782 CCCACTGATGGCAAGCTCTTCCCGAGGATGTTTTCGTGACTGCAAGAGGGGATCCC 841
 QY 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259
 Db 842 AAGCAGCGGAAGCGGAACAGAGCGCGGCCCGGAAAGCTGAGCAAGAGTACTTGGGACTGT 901
 QY 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279
 Db 902 CTCGAGGGCAAGAGAGCAGCAGCGCCCGCAGAGCAGCCCTTGGGAGTTTATCCGG 961
 QY 280 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
 Db 962 GACATCTCATCCACCGGAGCTCAACGAGGCGCTCATGAAGTGGAGAAATCGGCATGAA 1021
 QY 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319
 Db 1022 GCGCTCTTCAAGTCTCTGGCTCCGAGGCTGGGCGCCCAACTATGGGGCCAAAGAAAG 1081
 QY 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 339
 Db 1082 AACAGCAACATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTACTACAAAGGGAG 1141
 QY 340 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSertGly 359
 Db 1142 ATCTGGAAACGGGTGATGGCGGGGACTCGTCTAAGATTGGCAAAATCTCAAGCGGC 1201
 QY 360 TrpLysGluGluGluValGlyGluSerArgAsn 370
 Db 1202 TGAAGAGGAAGAGAGTTCTCCAGAGTCGGAAC 1234

RESULT 8

US-10-264-049-756
 ; Sequence 756, Application US/10264049
 ; Publication No. US2004000579A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Birse et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: PAI33P1
 ; CURRENT APPLICATION NUMBER: US/10/264,049
 ; CURRENT FILING DATE: 2002-10-04
 ; PRIOR APPLICATION NUMBER: PCT/US01/18569

; PRIOR FILING DATE: 2001-06-07
 ; PRIOR APPLICATION NUMBER: US 60/209,467
 ; PRIOR FILING DATE: 2000-06-07
 ; NUMBER OF SEQ ID NOS: 4360
 ; SOFTWARE: PatentIn Ver. 3.1
 ; SEQ ID NO 756
 ; LENGTH: 1956
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-264-049-756
 Alignment Scores:
 Pred. No.: 1,236-189 Length: 1956
 Score: 1707.00 Matches: 322
 Percent Similarity: 92.72% Conservative: 22
 Best Local Similarity: 86.79% Mismatches: 25
 Query Match: 86.21% Indels: 2
 DB: 12 Gaps: 2

US-08-978-217-16_COPY_2_371 (1-370) x US-10-264-049-756 (1-1956)

QY 1 AlaAlaThrCysGluIleSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20
 Db 164 GCTGCAACCTGTGAGATTAGCAACTTTTAGCAACTACTTTCAGTGGGATGTACAGCTCG 223
 QY 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
 Db 224 GAGGACTCCACCCTGGCCCTCTGTTCCTCCCTGTGTCACCTTTGGGCGCATGACTTGGTA 283
 QY 40 LeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59
 Db 284 CTGACCTTGAGCAACCCCAAGATGCTTGGAGGGTACAGAGAGCCAGCTGTGGGG 343
 QY 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpIleSerTyrGlnValGlu 79
 Db 344 GAACAGCCCGAGTCTGTGTCGAAGACGCGAGGTTCTGGATGATCAGCTACCAAGTGGAG 403
 QY 80 LysAsnLysThrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99
 Db 404 AAGACAAAGTACGACCAAGCGCCATTTGCTCTCAGATGACATGATGGCGCAC 463
 QY 100 LeuCysSerCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119
 Db 464 CTCTGCAATTTGTCCTTTCAGGAGCTGCTGTGCTTTGGGCTCTGGGGACCAACTC 523
 QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleLeuGlu 139
 Db 524 CATGCCACAGTGGCAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTTGAG 583
 QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159
 Db 584 CTGCTGGAGAGATGGCATGGCTTCCAGGAGGCCCTA--GACCCAGGGCCCTTTGAC 640
 QY 160 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyr 179
 Db 641 CAGGGCAGCCCTTTTCCAGGAGTGTCTGGACGAGCTCAGCAAGCCAGCCAGCCCTTACCAC 700
 QY 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
 Db 701 CCGCGAGCTGTGGCGCAGAGCCCTTCCCTGGCAGCTCTGAGCTCTCCACCGAGGG 760
 QY 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219
 Db 761 ACTGTGCTTCTCGGAGCTCCCACTCTCAGACTCCGCTGGAGTGAAGTGAAGTGGAT 820
 QY 220 LeuThrGluSerLysValPheProArgAspAspPheThrAspTyrLysGlyGluPro 239
 Db 821 CCACACTGATGGCAAGCTCTTCCCGAGGATGTTTTCGTGACTGCAAGAGGGGATGCC 880
 QY 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259
 Db 881 AAGCAGCGGAAGCGGAACAGAGCGCGGCCCGGAAAGCTGAGCAAGAGTACTTGGGACTGT 940

QY 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 279
 Db 941 CTCGAGGGCAAGAGAGCAAGCAGCGCCAGAGGACACCCACCTGTGGAGTTTCATCGG 1000
 QY 280 AspileuileHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
 Db 1001 GACATCTCATCCACCCGAGCTTAACGAGGGCTTATGAAGTGGAGATCGCATGAA 1060
 QY 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319
 Db 1061 GCGCTCTCAAGTTCTCGGTCCGAGGCTGTGCCCCAATATGGGGCCAAAGAAAG 1120
 QY 320 AsnSerAsnMetThrTrpGluLysLeuSerArgAlaMetArgTrpTrpLysArgGlu 339
 Db 1121 AACAGCAACATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTACTACAAACGGAG 1180
 QY 340 IleLeuGluArgValAspGlyArgGluValTrpLysPheGlyLysAsnSerSerGly 359
 Db 1181 ATCTTGAAACGGGTGGATGCGCGGCGACTGCTTACAGTTTGGCAAAACTCAAGCGG 1240
 QY 360 TrpLysGluGluValGlyGluSerArgAsn 370
 Db 1241 TGGAGGAGGAAGAGGTTCTCCAGAGTCGGAAC 1273

RESULT 9

US-09-925-301-207
 ; Sequence 207, Application US/09925301
 ; Patent No. US20020052308A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 ; FILE REFERENCE: P406
 ; CURRENT APPLICATION NUMBER: US/09/925,301
 ; CURRENT FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/05882
 ; PRIOR FILING DATE: 2000-03-08
 ; PRIOR APPLICATION NUMBER: 60/124,270
 ; PRIOR FILING DATE: 1999-03-12
 ; NUMBER OF SEQ ID NOS: 1694
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 207
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-925-301-207

Alignment Scores:
 Pred. No.: 1,26e-189 Length: 1996
 Score: 1707.00 Matches: 322
 Percent Similarity: 92.72% Conservative: 22
 Best Local Similarity: 86.79% Mismatches: 25
 Query Match: 86.21% Indels: 2
 Gaps: 2
 US-08-978-217-16_COPY_2_371 (1-370) x US-09-925-301-207 (1-1996)

QY 1 AlaAlaThrCysGluIleSerAsnValPheSerAsnTrpPheAsnAlaMetTrpSerSer 20
 Db 144 GCTGCAACCTGTGAGATTAGCAACATTTTATGCAACTTCTCAGTGGATGTACAGCTG 203
 QY 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
 Db 204 GAGACTCCACCTCGGGCTGTGTTCCCTCTGCTCCACCTTTGGGGCCGATGATGGTA 263
 QY 40 LeuThrLeuAsnAsnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59
 Db 264 CTGACCTGTGACCAACCCAGATGTCATTGGAGGGTACAGAGAGCCAGCTGGTGGGG 323
 QY 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerTrpGlnValGlu 79
 Db 324 GAACAGCCCCAGTTCTGCTGCAAGCAGCGGTTCTGAGTGGATCACTACCAAGTGGAG 383
 QY 80 LysAsnLysTrpAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99

Db 384 AAGAAAGTACGACGCAAGCGCCATTGACTTCTCAGATGTGACATGATGGCGCAC 443
 QY 100 LeuCysSerCysAlaLeuGluGluArgLeuValPheGlyProLeuGlyAspGlnLeu 119
 Db 444 CTCTGCAATGTGCCCCCTTGAGAGCTGGCTGTGCTTTGGGCTCTTGGGGACCAACTC 503
 QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleIleGlu 139
 Db 504 CATGCCAGCTGCGAGACCTCATTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTAG 563
 QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159
 Db 564 CTGTGGAGAGAGTGGCATGGCTTCCAGAGGCCCTA---GACCCAGGCGCCCTTTGAC 620
 QY 160 GlnGlySerProPheAlaGlnGluLeuAspGlyArgGlnAlaSerProTrpTrpTrp 179
 Db 621 CAGGGCAGCCCTTTGCCAGGAGCTGCTGACGACGCTGACCAAGCAGCCCTTACCAC 680
 QY 180 CysSerThrTrpGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
 Db 681 CCCGCGACGTGTGGCGCAGGAGCCCTCCCTCCCTGCGAGCTCTGACGCTCCACCGCAGG 740
 QY 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219
 Db 741 ACTGGTCTTCTCGAGCTCCCACTCTCAGCTCCGTTGGAAGTGAAGTGGACCTGGAT 800
 QY 220 LeuThrGluSerLysValPheProArgAspAspPheThrAspTrpLysLysGlyGluPro 239
 Db 801 CCCACTGATGCAAGCTCTTCCCGAGCGATGGTTTCTGCTGACTGCAAGAGAGGGGATCCC 860
 QY 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTrpTrpAspCys 259
 Db 861 AAGCAGCGGAGAGCGAAGAACGAGCGCGCCCGAAGCTGAGCAAGAGTACTGGGACTGT 920
 QY 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 279
 Db 921 CTCGAGGGCAAGAGAGAGCAGCAGCAGCGCCAGAGGACCCACCTGTGGGATTCATCGG 980
 QY 280 AspileuileHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
 Db 981 GACATCTCATCCACCCGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA 1040
 QY 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319
 Db 1041 GCGCTCTTCAAGTTCTCGCTCCGAGGCTGTGCCCCAATATGGGGCCAAAGAAAG 1100
 QY 320 AsnSerAsnMetThrTrpGluLysLeuSerArgAlaMetArgTrpTrpLysArgGlu 339
 Db 1101 AACAGCAACATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTACTACAAACGGAG 1160
 QY 340 IleLeuGluArgValAspGlyArgGluValTrpLysPheGlyLysAsnSerSerGly 359
 Db 1161 ATCTTGAAACGGGTGGATGCGCGGCGACTGCTTACAGTTTGGCAAAACTCAAGCGG 1220
 QY 360 TrpLysGluGluValGlyGluSerArgAsn 370
 Db 1221 TGGAGGAGGAAGAGGTTCTCCAGAGTCGGAAC 1253

RESULT 10

US-10-131-410-64
 ; Sequence 64, Application US/10131410
 ; Publication No. US20030235915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SPECHT, THOMAS
 ; APPLICANT: HINZMANN, BERND
 ; APPLICANT: SCHMITT, ARMIN
 ; APPLICANT: PILARSKI, CHRISTIAN
 ; APPLICANT: DAHL, EDGAR
 ; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST TUMORS
 ; TITLE OF INVENTION: TUMORS
 ; FILE REFERENCE: SCH-1763

; CURRENT APPLICATION NUMBER: US/10/131.410
 ; CURRENT FILING DATE: 2002-04-25
 ; PRIOR APPLICATION NUMBER: 09/646,673
 ; PRIOR FILING DATE: 2000-09-20
 ; PRIOR APPLICATION NUMBER: PCT/DE99/00908
 ; PRIOR FILING DATE: 1999-03-19
 ; NUMBER OF SEQ ID NOS: 202
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 64
 ; LENGTH: 2269
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-131-410-64

Alignment Scores:

Pred. No.: 2,05e-160 Length: 2269
 Score: 1458.50 Matches: 281
 Percent Similarity: 93.71% Conservative: 17
 Best Local Similarity: 88.36% Mismatches: 19
 Query Match: 73.66% Indels: 3
 DB: 12 Gaps: 1

US-08-978-217-16_COPY_2_371 (1-370) x US-10-131-410-64 (1-2269)

QY	53	GlulysAlaSerTrpThrSerGluArgProGlnPheThrSerLysThrGlnValLeuGlu	72
Db	15	GAGNAGCCAGCTGGTGGGGGAAACAGCCCGGCTTGGTCGAGAG-CAGGTTCTGGAC	73
QY	73	TrpLysSerTrpGlnValGluLysAsnLysTyAspAlaSerSerLysAspPheSerArg	92
Db	74	TGGATCAGCTACCAAGTGGAGAGAACCAAGTACGACGAGCCGCACTTCTCACGA	133
QY	93	CysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeuValPhe	112
Db	134	TGGATGATGATGGCGCCCTCTGCAATGTGGCTTGGAGAGTGGCTTGGCTTT	193
QY	113	GlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAsp	132
Db	194	GGGCTCTGGGGACCAACTCCATGCTCCAGCTCGAGAGCTCACTTCCAGCTTCTGAT	253
QY	133	GlulysSerTrpLysLeuGluLeuGluLysAspGlyMetSerPheGlnGluSerLeu	152
Db	254	GAGTTCAGTTGGATCATGTAGCTGCTGGAGAGATGGATGGCCCTTCCAGGAGGCCCTA	313
QY	153	GlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAspGly	172
Db	314	---GACCCAGGCGCTTTGACAGGGCAGCCCTTTGCCAGAGCTGTGGACGAGGT	370
QY	173	ArgGlnAlaSerProTrpTyThrCysSerThrTrpGlyProGlyAlaProSerProGlySer	192
Db	371	CAGCAAGCCAGCCCTTACCAACCCCGGCGAGCTGTGGCGCAGGAGCCCTTCCCTTGGCAGC	430
QY	193	SerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSerGly	212
Db	431	TCTGACCTCTCCACCGC-AGACTGTGGTCTTCCGAGAGTCCCTCCACTCCAGACTCCGT	489
QY	213	GlySerAspValAspLeuLeuThrGluSerLysValPheProArgAspAspPheThr	232
Db	490	GGAAGTCACCTGACCTGGATCCCATCTGATGGCAAGCTCTTCCAGCGATGTTTCT	549
QY	233	AspTrpLysGlyGluProLysHisGlyLysArgLysArgGlyArgProArgLysLeu	252
Db	550	GACTGCAAGAGGGGGATCCCAAGCAGCGGAGAACGGAACGAGCGCGGCGGCGGAAAGCTG	609
QY	253	SerLysGluTrpTrpAspCysLeuGluGlyLysSerLysHisAlaProArgGlyThr	272
Db	610	AGCAAGAGTACTGGGACTCTCGAGGGCAAGAGAGCAAGCAGCGCGCCAGAGCAC	669
QY	273	HisLeuTrpGluPheLysArgAspLysLeuHisProGluLeuAsnGluGlyLeuMet	292
Db	670	CACCTGGGAGTTCACTCCGGGACATCTCATCCACCGGAGCTCAACGAGGCGCTCATG	729
QY	293	LysTrpGluAsnArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGln	312

Db	730	AAGTGGGAGATCGCATGAGGCGTCTTCAAGTTCCTCGGCTCCGAGGCTGTGCCCAA	789
QY	313	LeuTrpGlyGlnLysLysLysAsnSerAsnMetThrTrpGluLysLeuSerArgAlaMet	332
Db	790	CTATGGGGCCAAAAGAAAAGAACAGCAACATGACCTACGAGAGCTGAGCGGGCCATG	849
QY	333	ArgTrpTrpLysArgGluLeuLeuGluArgValAspGlyArgGluValValLys	352
Db	850	AGGTACTACTACAAACGGGAGATCTGGAACGGGTGGTGGCGCGGACTCGTCTCAAG	909
QY	353	PheGlyLysAsnSerSerGlyTrpLysGluGluValGlyGluSerArgAsn	370
Db	910	TTTGGCAAAACTCAAGCGGCTGGAAGGAGGAGGTCTTCCAGAGTCGGGAC	963

RESULT 11

US-09-922-217-853/C
 ; Sequence 853: Application US/09922217
 ; Patent No. US20020076414A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Secrist, Heather
 ; APPLICANT: Benson, Darin R.
 ; APPLICANT: Mesgher, Madeleine Joy
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Wang, Tongtong
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Smith, Carole Lynn
 ; APPLICANT: King, Gordon E.
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Clapper, Jonathan D.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
 ; FILE REFERENCE: 210121.471C13
 ; CURRENT APPLICATION NUMBER: US/09/922,217
 ; CURRENT FILING DATE: 2001-08-03
 ; NUMBER OF SEQ ID NOS: 1124
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 853
 ; LENGTH: 626
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-922-217-853

Alignment Scores:
 Pred. No.: 4.34e-99 Length: 626
 Score: 928.50 Matches: 174
 Percent Similarity: 90.91% Conservative: 16
 Best Local Similarity: 83.25% Mismatches: 18
 Query Match: 46.89% Indels: 1
 DB: 9 Gaps: 1

US-08-978-217-16_COPY_2_371 (1-370) x US-09-922-217-853 (1-626)

QY	51	GlyProGluLysAlaSerTrpThrSerGluArgProGlnPheThrSerLysThrGlnVal	70
Db	624	GCTACAGAGAGGCGAGCTGGTGGGGGAAACAGCCCGCTTGTCTGGAAGACGAGTT	565
QY	71	LeuGluTrpLysSerTrpGlnValGluLysAsnLysTrpAspAlaSerSerLysAspPhe	90
Db	564	CTGACCTGGATCAGCTACCAAGTGGAGAGAACAGTACAGCAGCGCATTTGACTTC	505
QY	91	SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeuArgLeu	110
Db	504	TCACGATGTGACATGGATGGCGCCACCCTCTGCAATTTGCTTGGAGAGCTGCGTCTG	445
QY	111	ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer	130
Db	444	GTCTTTGGGCTCTGGGGGACCAACTCCATGCCAGCTGGAGACCTCACTTCCAGCTCT	385
QY	131	SerAspGluLeuSerTrpLysLeuGluLeuGluLysAspGlyMetSerPheGlnGlu	150

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Db 384 TCTGATGAGCTCAGTTCGATCATTGAGCTGTGAGAGGATGCGATGGCTCCAGGAG 325
Qy 151 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAsp 170
Db 324 GCGCTA---GACCCAGGGCCCTTTGACACAGGCGAGCCCTTTGCCAGGAGCTGTGGAC 268
Qy 171 AspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerPro 190
Db 267 GACGGTCAGCAGCAGCAGCCCTTACCCAGGCGAGCTGTGGCGCAGGAGCCCTCCCCC 208
Qy 191 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 210
Db 207 GCGAGCTCTGAGCTCTCCACCGAGGAGCTGTGCTCTCGAGCTCCCACTCTCTAGAC 148
Qy 211 SerGlyGlySerAspValAspLeuThrGluSerLysValPheProArgAspAsp 230
Db 147 TCCGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 88
Qy 231 PheThrAspTyrLysGlyGluProLysHisGlyLysArgLysArgLysArgLysArgLys 250
Db 87 TTTTGTGACTGCAAGAGGGGATCCCAAGCAGCGAAGCGAAGCGAAGCGAAGCGAAGCGAAG 28
Qy 251 LysLeuSerLysGluTyrTyrAspCys 259
Db 27 AAGCTGAGCAAGAGTACTGGGACTGT 1

RESULT 12
US-09-833-263-853/c
; Sequence 853, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-853

Alignment Scores:
Pred. No.: 4,34e-99 Length: 626
Score: 928.50 Matches: 174
Percent Similarity: 90.91% Conservative: 16
Best Local Similarity: 83.25% Mismatches: 18
Query Match: 46.89% Indels: 1
DB: 10 Gaps: 1

US-08-978-217-16_COPY_2_371 (1-370) x US-09-833-263-853 (1-626)

Qy 51 GlyProGlyLysAlaSerThrTyrSerGluArgProGlnPheThrSerLysThrGlnVal 70
Db 624 GGTACAGAGAGAGGCGAGCTGTGGGGAACAGCCCGAGTCTGTGTCGAGAGCGAGGT 565
Qy 71 LeuGluThrPheSerTyrGlnValGlyLysAsnLysTyrAspAlaSerSerIleAspPhe 90
Db 564 CTGGAGTGGATCAGTCACTACCAAGTGGAGAAGAACAGTACGACGACGAGCCATTGATTC 505
Qy 91 SerArgCysAsnMetAspGlyAlaThrLeuGlyCysSerCysAlaLeuGluGluLeuArgLeu 110
Db 504 TCACATGTGACATGATGGCGGACCCCTCTGCAATTGTGCCCTTTGAGGAGCTGGCTCTG 445
Qy 111 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 130
Db 444 GTCTTTGGGCTCTGGGGGACCACTCCATGCCAGCTGCGAGACCTCACTTCCAGCTCT 385

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Qy 131 SerAspGluLeuSerTyrPheIleGluLeuLeuGluLysAspGlyMetSerPheGlnGlu 150
Db 384 TCTGATGAGCTCAGTTCGATCATTGAGCTGTGAGAGGATGCGATGGCTTCAGGAG 325
Qy 151 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAsp 170
Db 324 GCGCTA---GACCCAGGGCCCTTTGACACAGGCGAGCCCTTTGCCAGGAGCTGTGGAC 268
Qy 171 AspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerPro 190
Db 267 GACGGTCAGCAGCAGCAGCCCTTACCCAGGCGAGCTGTGGCGCAGGAGCCCTCCCCC 208
Qy 191 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 210
Db 207 GCGAGCTCTGAGCTCTCCACCGAGGAGCTGTGCTCTCGAGCTCCCACTCTCTAGAC 148
Qy 211 SerGlyGlySerAspValAspLeuThrGluSerLysValPheProArgAspAsp 230
Db 147 TCCGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 88
Qy 231 PheThrAspTyrLysGlyGluProLysHisGlyLysArgLysArgLysArgLysArgLys 250
Db 87 TTTTGTGACTGCAAGAGGGGATCCCAAGCAGCGAAGCGAAGCGAAGCGAAGCGAAGCGAAG 28
Qy 251 LysLeuSerLysGluTyrTyrAspCys 259
Db 27 AAGCTGAGCAAGAGTACTGGGACTGT 1

RESULT 13
US-10-025-380-853/c
; Sequence 853, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yudi
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedwick Thomas S.
; APPLICANT: Carter, Darick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-853

Alignment Scores:
Pred. No.: 4,34e-99 Length: 626
Score: 928.50 Matches: 174
Percent Similarity: 90.91% Conservative: 16
Best Local Similarity: 83.25% Mismatches: 18
Query Match: 46.89% Indels: 1
DB: 14 Gaps: 1

US-08-978-217-16_COPY_2_371 (1-370) x US-10-025-380-853 (1-626)

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QY 51 GlyProGluLysAlaSerTrpThrSerGluArgProGlnPheTrpSerLysThrGlnVal 70
 Db 624 GGTACAGAGAGCCAGCTGTTGGGGAGACAGCCCACTTCTGGTGGAGAGCGAGTT 565
 QY 71 LeuGluTrpLysSerTrpGlnValGluLysAsnLysTyAspAlaSerSerLysPhe 90
 Db 564 CTGGACTGATCAGCTACCAAGTGGAGAGAACAACTAGTACGAGCGCCATTCAGCTTC 505
 QY 91 SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeu 110
 Db 504 TCACGATGTGACATGATGGCCACCTCTGCAATGTGGCCCTTGAGGAGTGGCTGTG 445
 QY 111 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 130
 Db 444 GTCTTTGGGCTCTGGGGAGCAACCTCCATGCGCAGCTCGAGAGCTCCTCCAGCTCT 385
 QY 131 SerAspGluLeuSerTrpLysLeuGluLeuLysAspGlyMetSerPheGlnGlu 150
 Db 384 TCTGATGAGCTCAGTTGGATCATTTGAGCTGCTGGAGAGGATGGCATGGCCCTTCAGGAG 325
 QY 151 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAsp 170
 Db 324 GCCTTA---GACCCAGGGCCCTTTGACAGGGCAGCCCTTTGGCCAGGAGCTGTGGAC 268
 QY 171 AspGlyArgGlnAlaSerProTyTrpCysSerThrTyGlyProGlyAlaProSerPro 190
 Db 267 GACGGTCAGCAAGCCAGCCCTTACCAACCCCGCAGCTGTGGCCAGGAGCCCTCCCTCC 208
 QY 191 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 210
 Db 207 GGCAGCTCTGAGCTCTCCACCGCAGGAGCTGTGGCTTCTCGGAGCTCCCACTCTCCAGAC 148
 QY 211 SerGlyGlySerAspValAspLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 230
 Db 147 TCCGGTGGAGTGGACCTGACCTGATCCCACTGATGGCAAGCTCTTCCCGAGCATGGT 88
 QY 231 PheThrAspTyrlsGlyGlyGluProLysHisGlyLysArgLysArgLysArgProArg 250
 Db 87 TTTCTGATGTCGACAGAGGGGATCCCAAGCAGCGGAGCGGAGGCGGCGGCGGCGG 28
 QY 251 LysLeuSerLysGluTyTrpAspCys 259
 Db 27 AAGCTGAGCAAGAGTACTGGGACTGT 1

RESULT 14

US-09-922-217-944/c

; Sequence 944, Application US/09922217

; Patent No. US20020076414A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Lodes, Michael J.

; APPLICANT: Secrist, Heather

; APPLICANT: Benson, Darin R.

; APPLICANT: Meagher, Madeleine Joy

; APPLICANT: Stolk, John A.

; APPLICANT: Wang, Tongtong

; APPLICANT: Jiang, Yugu

; APPLICANT: Smith, Carole Lynn

; APPLICANT: King, Gordon E.

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

; FILE REFERENCE: OF COLON CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.471C13

; CURRENT APPLICATION NUMBER: US/09/922,217

; CURRENT FILING DATE: 2001-08-03

; NUMBER OF SEQ ID NOS: 1124

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 944

; LENGTH: 563

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-922-217-944

Alignment Scores:

Pred. No.: 5,1e-88 Length: 563
 Score: 833.50 Matches: 157
 Percent Similarity: 91.49% Conservative: 15
 Best Local Similarity: 83.51% Mismatches: 15
 Query Match: 42.10% Indels: 1
 DB: 9 Gaps: 1

US-08-978-217-16_COPY_2_371 (1-370) x US-09-922-217-944 (1-563)

QY 72 GluTrpLysSerTrpGlnValGluLysAsnLysTyAspAlaSerSerLysPheSer 91
 Db 562 GACTGATCAGTACCAAGTGGAGAGAACAACTAGTACGAGCGCCATTCAGTCTCA 503
 QY 92 ArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeuVal 111
 Db 502 CGATGTGACATGATGGCCACCTCTGCAATGTGGCCCTTGAGGAGTGGCTGTGGTC 443
 QY 112 PheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 131
 Db 442 TTTGGGCTCTGGGGAGCAACCTCCATGCCAGCTCGAGACCTCACTTCCAGCTCTTCT 383
 QY 132 AspGluLeuSerTrpLysLeuGluLeuLysAspGlyMetSerPheGlnGluSer 151
 Db 382 GATGAGCTCAGTTGGATCATTTGAGCTGCTGGAGAGGATGGCATGGCCCTTCCAGGAGGCC 323
 QY 152 LeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAsp 171
 Db 322 CTA---GACCCAGGGCCCTTTGACAGGGCAGCCCTTTGGCCAGGAGCTGTGGAGCAC 266
 QY 172 GlyArgGlnAlaSerProTyTrpCysSerThrTyGlyProGlyAlaProSerProGly 191
 Db 265 GGTGAGCAAGCCAGCCCTTACCAACCCCGCAGCTGTGGCCAGGAGCCCTCCCTCCCGGC 206
 QY 192 SerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 211
 Db 205 AGTCTGAGCTCTCCACCGCAGGAGCTGTGGTCTTCTCGGAGCTCCCACTCTCCAGACTCC 146
 QY 212 GlyGlySerAspValAspLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 231
 Db 145 GGTGGAAGTGAAGTGGATCCCACTGATGGCAAGCTTCTCCAGCATGGTGT 86
 QY 232 ThrAspTyrlsGlyGlyGluProLysHisGlyLysArgLysArgLysArgProArg 251
 Db 85 CGTGACTGCAAGAGGGGATCCCAAGCAGCGGAGCGGAGGCGGCGGCGGCGGCGG 26
 QY 252 LeuSerLysGluTyTrpAspCys 259
 Db 25 CTGAGCAAGAGTACTGGGACTGT 2

RESULT 15

US-09-833-263-944/c

; Sequence 944, Application US/09833263

; Patent No. US20020110547A1

; GENERAL INFORMATION:

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Stolk, John A.

; APPLICANT: Meagher, Madeleine J.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND

; FILE REFERENCE: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.471C12

; CURRENT APPLICATION NUMBER: US/09/833,263

; CURRENT FILING DATE: 2001-04-10

; NUMBER OF SEQ ID NOS: 1093

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 944

; LENGTH: 563

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-833-263-944

Alignment Scores:

Pred. No.: 5,1e-88 Length: 563
 Score: 833.50 Matches: 157
 Percent Similarity: 91.49% Conservative: 15
 Best Local Similarity: 83.51% Mismatches: 15
 Query Match: 42.10% Indels: 1
 DB: 10 Gaps: 1

US-08-978-217-16_COPY_2_371 (1-370) x US-09-833-263-944 (1-563)

Qy	72	GlutTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerSerIleAspPheSer	91
Db	562	GATGATACAGTACAGAGTGGAGAGAACAGTACAGCAGCGCCATTGACTTCTCA	503
Qy	92	ArgCysAsnMetAspGlyAlaThrLeuLysSerCysAlaLeuLysLysLeuVal	111
Db	502	CGATGTGACATGATGGCGCCACCTCTGCAATTGTGCCCTTGGAGAGTGGTCTGGTC	443
Qy	112	PheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSer	131
Db	442	TTTGGGCGCTCTGGGGGACCAACTCCATGCCAGCTCGAGAGCTCACTTCCAGCTTCTCT	383
Qy	132	AspGluLeuSerTrpIleLeuLeuLysLeuLysLeuLysLeuLysLeuLysLeuLys	151
Db	382	GATGAGCTCAGTTGGATCAATTGAGCTGTGGAGAGGATGGCATGGCTTCCAGGAGGCC	323
Qy	152	LeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLysLeuAsp	171
Db	322	CTA---GACCCAGGGGCGCTTTGACAGGGGCGAGCCCTTTGCCAGGAGCTGTGGACGAC	266
Qy	172	GlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerProGly	191
Db	265	GGTCAGCAAGCCAGCCCTTACCCCGGCGAGCTGTGGCGCAGGAGCCCTCCCCCGGC	206
Qy	192	SerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSer	211
Db	205	AGCTCTGACCTCTCCACCGCAGGGGACTGGTGCTTCTCGAGAGTCCCACTCTCAGACTCC	146
Qy	212	GlyGlySerAspValAspLeuAspLeuThrGluSerLysValPheProArgAspAspPhe	231
Db	145	GGTGGAAAGTACGTGGACCTGGATCCCACTGATGGCAGAGCTCTTCCCGAGCGATGGTTTT	86
Qy	232	ThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgGlyArgProArgLys	251
Db	85	CGTGACTGCAAGAGGGGGATCCCAAGCAGCGGAGCGGAAACGAGGCGGCGCCCGAAAG	26
Qy	252	LeuSerLysGluTyrTrpAspCys	259
Db	25	CTGAGCAAGAGTACTGGGACTGT	2

Search completed: February 13, 2004, 01:46:24
 Job time : 599.817 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 13, 2004, 01:27:22 ; Search time 2732.91 Seconds
(without alignments)
10448.744 Million cell updates/sec

Title: US-08-978-217-15

Perfect score: 7752
Sequence: 1 GGATCTTCCAGGCACTGA.....CAGAGGGTCTCTGGATCC 7752

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*
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2: /cgn2_6/ptodata/1/pubna/PCT_NEW_PUB.seq.*
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18: /cgn2_6/ptodata/1/pubna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	216	2.8	1907	15	US-10-097-340-74
2	215.6	2.8	1915	10	US-09-964-824A-101
3	215.6	2.8	1915	10	US-09-964-824A-563
4	215.6	2.8	1915	10	US-09-880-107-3420
5	215.6	2.8	1915	10	US-09-967-768A-192
6	215.6	2.8	1917	9	US-09-322-217-1105
7	215.6	2.8	1917	14	US-10-025-380-1105
8	215.6	2.8	1956	12	US-10-264-049-756
9	215.6	2.8	1996	9	US-09-925-301-207
10	215.6	2.8	2289	12	US-10-131-410-64
11	185.8	2.4	1435	12	US-10-292-798-1601
12	185.8	2.4	1435	13	US-10-017-161-1953
13	176.2	2.3	626	9	US-09-922-217-853
14	176.2	2.3	626	10	US-09-833-263-853
15	176.2	2.3	626	14	US-10-025-380-853

16	174.2	2.2	620	15	US-10-060-036-2379
17	166	2.1	437	10	US-09-998-598-2216
18	163.8	2.1	275	15	US-10-060-036-3261
19	163.8	2.1	499	10	US-09-998-598-2290
20	163.8	2.1	502	9	US-09-604-287A-282
21	163.8	2.1	502	10	US-09-339-338-282
22	163.8	2.1	502	11	US-09-551-621-282
23	163.8	2.1	502	13	US-10-124-805-282
24	163.8	2.1	502	14	US-10-076-622-282
25	163.8	2.1	502	15	US-10-076-622-282
26	148	1.9	451	10	US-09-998-598-32
27	144	1.8	528	15	US-10-066-543-3233
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29	132.2	1.7	563	9	US-09-322-217-944
30	132.2	1.7	563	10	US-09-833-263-944
31	132.2	1.6	563	14	US-10-025-380-944
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33	125.6	1.6	237	12	US-10-305-720-927
34	123.6	1.6	5973	10	US-09-893-238-4
35	122	1.6	45606	12	US-10-085-117-253
36	121.4	1.6	214	13	US-10-029-386-26439
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39	120.8	1.6	35403	12	US-10-085-117-85
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41	119.6	1.5	215980	11	US-09-972-546-16
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44	117.8	1.5	165961	12	US-10-085-117-241
45	117.8	1.5	263744	13	US-10-229-834A-6

ALIGNMENTS

RESULT 1

US-10-097-340-74
; Sequence 74, Application US/10097340
; Publication No. US20030087250A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVAPU
; APPLICANT: Sebastian HOERSCH
; APPLICANT: Shubhangi KAMATKAR
; APPLICANT: Steve G. KOVATS
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Ami SEN
; APPLICANT: Peter VEISY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. BAST, Jr.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumei ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification, Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: WEI-030
; CURRENT APPLICATION NUMBER: US/10/097,340
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26
; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26

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; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-097-340-74

Query Match      2.8%; Score 216; DB 15; Length 1907;
Best Local Similarity 66.7%; Pred. No. 3.3e-54;
Matches 456; Conservative 0; Mismatches 195; Indels 33; Gaps 9;

QY 6999 AGGTATTACTACAAACGGGAGATCTGGAAACGGGTGGATGGCGGACGGCTCGTCTACAAG 7058
Db 1095 AGGTATTACTACAAACGGGAGATCTGGAAACGGGTGGATGGCGGACGGCTCGTCTACAAG 1154
QY 7059 TTTGGCAAGAACTCTAGTGGCTGGAAGGAAGAGAGTGGAGAGAGTGGAAATTAAGGA 7118
Db 1155 TTTGGCAAAACTCAAGCGGTGGAGGAGGAAGAGGTTCTCCAGAGTGGAACTGAGGG 1214
QY 7119 TCGGGGTGGACCCAGGACCTGACTCAGGATGAATCCAGAACTGAAGCTTCTCTGGAA 7178
Db 1215 TTGAACTATACCGGGGACCAACTCAGGACCACTCAGGCGCTGCAAACTTCTCTGGGA 1274
QY 7179 GGACAGGAGCGCTGACGGCCCCCTTAACATGATGTTTCCCTGTGTTCTGTAGAGAG 7238
Db 1275 GGACAGGAGCGGACAGATGG-CCCCCTCACTGGGGAATGCTCCAGCTGTGCTGTGAGAG 1333
QY 7239 GAAGAACTGTGTGGCGTGCCCTCTGC---AGTCTCTCAAGTCAGCCCTTTGGCCTC-- 7293
Db 1334 AAGCTGATGTTTGGTGTATGTCAGCCATCGTCTCTGGACTCGAGACTATGGCTCGC 1393
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QY 7342 --TGATAAATCTTCCAGCTGTGATTCAGTTCCTCCCTCCGTCACATGAGTGCATAT 7399
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QY 7400 GAGAC---CCACCTGCAAGATCCCTGGCTCAGCCAGAGAGGCTGGGAGACTGTGACGG 7456
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QY 7457 AGACTGACGAGGAGGAGGACAGGTTGTCTCGGTACTTC---CTGGACTGCTTC 7513
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Db 1630 CACCTCCCTGCTCAGTCTTGGGCTCCACGGGACAGGGGTGAGAGCACTCCCTAATTTATG 1689
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QY 7631 CTGCTCTTCTCAGTGTGCTGG 7654
Db 1750 CACTCTCTCCACAGAGTGTGG 1773

RESULT 2
US-09-964-824A-101
; Sequence 101, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A

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; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 101
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-101

Query Match      2.8%; Score 215.6; DB 10; Length 1915;
Best Local Similarity 65.6%; Pred. No. 4.4e-54;
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTACAAACGGGAGATCTGGAAACGGGTGGATGGCGGACGGCTCGTCTACAAG 7058
Db 1119 AGGTATTACTACAAACGGGAGATCTGGAAACGGGTGGATGGCGGACGGCTCGTCTACAAG 1178
QY 7059 TTTGGCAAGAACTCTAGTGGCTGGAAGGAAGAGAGTGGAGAGAGTGGAAATTAAGGA 7118
Db 1179 TTTGGCAAAACTCAAGCGGTGGAGGAGGAAGAGGTTCTCCAGAGTGGAACTGAGGG 1238
QY 7119 TCGGGGTGGACCCAGGACCTGACTCAGGATGAATCCAGAACTGAAGCTTCTCTGGAA 7178
Db 1239 TTGAACTATACCGGGGACCAACTCAGGACCACTCAGGCGCTGCAAACTTCTCTGGGA 1298
QY 7179 GGACAGGAGCGCTGACGGCCCCCTTAACATGATGTTTCCCTGTGTTCTGTAGAGAG 7238
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QY 7239 GAAGAACTGTGTGGCGTGCCCTCTGC---AGTCTCTCAAGTCAGCCCTTTGGCCTC-- 7293
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QY 7294 --TCTCTCGCCCTCTTGGAAATTAACAAGCCCGGGTTTGAACCAACTTGTTCGA----- 7345
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QY 7346 -----TAACCTCTTCCAGCTGTGATTCAGTTCCTCCGTCCTCCCAACATGGAAGTCAA 7397
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Db 1538 ACACCTTCTCTCTGACAGACACTGAGCTGAGCCCAAGAGAGGCTGGG--GAGGCCCTAGGG 1595
QY 7458 GACTCGAGGACGGAGGGGACAGGGTTGTGTCTCTGG-----TACTTCTGAGCTGCTTC 7513
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QY 7573 TGC--TATAAATATTCAGGTTATATAGAGAGCTATTTTCTAAAGATTTTCCCTCC 7630
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QY 7631 CTGCTCTTCTCAGTGTGCTGG 7654
Db 1776 CACTCTCTCCACAGAGTGTGG 1799

RESULT 3
US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:

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; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563

Query Match      2.8%; Score 215.6; DB 10; Length 1915;
Best Local Similarity 65.6%; Pred. No. 4.4e-54;
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGACGGCTGCTCTACAAAG 7058
Db 1119 AGGTACTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGACGGCTGCTCTACAAAG 1178
QY 7059 TTGGCAAGACTCTAGTGGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 7118
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QY 7346 -----TAACTCTTCCAGCTGTGATTCAGTTCCTCCCTCCGTCCTCCCAACATGACTGCA 7397
Db 1478 AGTGATATCTCTTTATCTGCTGCTCTCAAAACCCAGTCTCAGACACTAAATGCAGACA 1537
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QY 7514 CACCTCTTGTCTCAGTACTCAGGCTCCACAGCGGGGTTCGATCA-TCCTTAATTATG 7572
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Db 1716 TGCTATATAATATGTCAGATGTACATAGAGATCTATTTTTTCTAAACATTCCTCCCTCC 1775
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Db 1776 CACTCTCTCCACAGAGTGTGG 1799

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RESULT 4
US-09-880-107-3420
; Sequence 3420, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 3420
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420

Query Match      2.8%; Score 215.6; DB 10; Length 1915;
Best Local Similarity 65.6%; Pred. No. 4.4e-54;
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGACGGCTGCTCTACAAAG 7058
Db 1119 AGGTACTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGACGGCTGCTCTACAAAG 1178
QY 7059 TTGGCAAGAACTCTAGTGGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 7118
Db 1179 TTGGCAAAACTCAAGCGGCTGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1238
QY 7119 TCGGGCTGACCCAGGACCTGACTCAGCAGCATGAACTCCAGAACTGAAAGCTTCTCTGGA 7178
Db 1239 TTGGAATATACCGGAGCAAACTCAGGACCACTCGAGGCTCGCAACCTTCTCTGGA 1298
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QY 7294 --TCTCTCGCCCTCTTGGAAATACAAAGCCCGGGTTTGAACCAACTTGTTCGA----- 7345
Db 1418 CTCCACACCTCTCTTGGAAATACAAAGCCCGGGTTTGAAGCTGACTTTATAGCTGCA 1477
QY 7346 -----TAACTCTTCCAGCTGTGATTCAGTTCCTCCCTCCGTCCTCCCAACATGACTGCA 7397
Db 1478 AGTGATATCTCTTTATCTGCTGCTCTCAAAACCCAGTCTCAGACACTAAATGCAGACA 1537
QY 7398 ATGAGACCCACTGACAGATGCTGGCCTCAGCCAGGAGGCTGGGAGACTGTGGCAGGA 7457
Db 1538 ACACCTTCTCTCTGACAGACTGACTGAGCTAGCAGCAGGAGGCTGGG- GAGGCCCTAGGG 1595
QY 7458 GACTGAGGAGCGGAGGAGACAGGGTGTGCTCG- -TACTTCTGAGCTGCTTC 7513
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	QY	CTGCTCTTCTCCACTGAGTGCTGG	7654
D _b		CACCTCTCTGCCACAGAGTGTGG	17799

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US-09-967-768A-192
; Sequence 192, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-192

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[illegible]

RESULT 6

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US-09-922-217-1105
; Sequence 1105, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSTICS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1105

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QY 7398 ATGAGACCCACCTGCAGATGCTGGGCTCAGCAAGAGGCTGGGAGACTGTGGCAGGA 7457
Db 1540 ACACCTTCTCTCTGTCAGACACCTGACTGAGCCAGGAGGCTGG--GAGGCCCTAGGG 1597
QY 7458 GACTGAGGAGCGAGGAGGACAGGTTGTGCTCG-----TACTTCTGAGACTGCCCTTC 7513
Db 1598 GAGCACCCTGATGGAGAGACAGAGCAGGAGGCTCCAGCACCTTCTTCTGAGCTGGCGTT 1657
QY 7514 CACCTCTTTGCTCAGTACTCAGGCTCCAGAGCGGGGTCGATCA-TCCCTAATTTATG 7572
Db 1658 CACCTCCCTGCTCAGTGTGCTGGCTCCAGGAGGAGGTCAGAGCACTCCCTAATTTATG 1717
QY 7573 TGC--TATAAATATCCAGGTGTATATAGAGACTATTTTTCTAAAGCAATTTCCCTCC 7630
Db 1718 TGTATATAAATATGTACAGATGTACATAGAGATCTATTTTTCTAAACATTTCCCTCCC 1777
QY 7631 CTGCTCTTCTCCACTGAGTGTGG 7654
Db 1778 CACTCCTCTCCACAGAGTGTGG 1801

RESULT 7

US-10-025-380-1105
; Sequence 1105, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skelky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; PRIOR FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-1105

Query Match 2.8%; Score 215.6; DB 14; Length 1917;
Best Local Similarity 65.6%; Pred. No. 4.4e-54;
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;
QY 5999 AGGTATTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGACGGCTCGTCTACAAG 7058
Db 1121 AGGTACTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGCGCACTCGTCTACAAG 1180
QY 7059 TTTGGCAAGAACTCTAGTGGCTGGAAGGAAGAGGTTGGAGAGTCCGGAATTAAGA 7118
Db 1181 TTTGGCAAAACTCAAGCGGCTGGAAGGAGAGAGGTTCTCGAGTCCGAACTGAGG 1240
QY 7119 TCGGGCTGACCCAGCACTGACTCAGGCATGAATCCAGAACTGAAGCTTCTCTGGAA 7178
Db 1241 TTGGAATATACCCGGGACCAAACTCAGGACCTCAGGAGGCTGCAAACTTCTCTGGAA 1300
QY 7179 GGACAGCGGCTCAGCGGCCCTTAACATGATGTGTTCCTGTGTGTGTGTAGAG 7238

Db 1301 GGACAGCGAGGCGCAGATGG--CCCTTCCACTGGGGAATGCTCCCGAGCTGTGTGTGAGAG 1359
QY 7239 GAAGAACCTGTTGGGGGTGCCCTCTGC--AGTCTCTCTAGTGTGAGCTTTGGCCCTC-- 7293
Db 1360 AAGCTGATGTTTTGGTGTATTGTTCAGCCATTCGCTCTGGGACTCGGAGACTATGGCCTCGC 1419
QY 7294 --TCTCTCGCCCTCTTGGAAATTACAAGCCCGGGTTGAACCACTTGTTCGA----- 7345
Db 1420 CTCCCAACCTCTCTTGGAAATTACAAGCCCTGGGGTTGAAGCTGACTTTATAGTCGA 1479
QY 7346 -----TAACTCTTCCAGCTGTGATTCAGTTCCTCCGTCGCCAAATGAGACTGCAA 7397
Db 1480 AGTGTATCTCTTTTATCTGTGCTCTCTCAACCCAGTCTTCAGACACTAAATGCGAGCA 1539
QY 7398 ATGAGACCCACCTCGAGATGCTTGGCTCAGCCCAAGAGGCTGGGAGACTGTGGCAGGA 7457
Db 1540 ACACCTTCTCTCTGCGACACCTGGACTGAGCCAGAGGCGCTGGG--GAGGCGCTTAGG 1597
QY 7458 GACTGAGGAGCGAGGGGACAGGGTTGTGCTCGG----TACTTCTGAGACTGCCTTC 7513
Db 1598 GAGCACCGTATGAGAGGAGACAGAGGCGGCTCCAGCACCTTCTTCTGAGCTGGCGTT 1657
QY 7514 CACCTCTTCTCTCAGTACTCAGGCTCCAGACGCGGGTCCGATCA-TCCCTAATTTATG 7572
Db 1658 CACCTCCTCTCTCAGTGTGCTGGGCTCCAGCGGCGGGGTCCAGAGCACTCCCTAATTTATG 1717
QY 7573 TGC--TATAAATATTCAGGTGTATATAGAGACTATTTTTCTAAAGCAATTTCCCTCC 7630
Db 1718 TGTATATAAATATGTACAGATGTACATAGAGATCTATTTTTCTAAACATTTCCCTCCC 1777
QY 7631 CTGCTCTTCTCCACTGAGTGTGG 7654
Db 1778 CACTCCTCTCCACAGAGTGTGG 1801

RESULT 8

US-10-264-049-756
; Sequence 756, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133P1
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 756
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-264-049-756

Query Match 2.8%; Score 215.6; DB 12; Length 1956;
Best Local Similarity 65.8%; Pred. No. 4.4e-54;
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;
QY 5999 AGGTATTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGACGGCTCGTCTACAAG 7058
Db 1160 AGGTACTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCCGCGCACTCGTCTACAAG 1219
QY 7059 TTTGGCAAGAACTCTAGTGGCTGGAAGGAAGAGGTTGGAGAGTGTGGAATTAAGA 7118
Db 1220 TTTGGCAAAACTCAAGCGGCTGGAAGGAGAGAGGTTCTCCAGAGTCCGAACTGAGG 1279
QY 7119 TCGGGCTGACCCAGCACTGACTCAGGCATGAATCCAGAACTGAAGCTTCTCTGGAA 7178
Db 1280 TTGGAATATACCCGGGACCAAACTCAGGACCACTCGAGGCGCTGCAAACTTCTCTGGAA 1339

QY 7179 GGACAGCAGCCTGAGCGCCCTTAAATGATGTTCCCTGTGTTCTGCTAGAG 7238
 Db 1340 GGACAGCAGCAGCAGATGG-CCCTCCATCGGGGAATGCTCCAGCTGTGCTGTGAGAG 1398
 QY 7239 GAAGAACTGTGGCGCTGCTCTGTC-AGTCTCTCAAGTGCAGCCCTTTGGCTC- 7293
 Db 1399 AAGCTGATGTTTGGTGTATTTGTCAGGCATGCTCTGGGACTCGGAGACTATGGCCTCGC 1458
 QY 7294 --TCTCTCGCCCTCTTGGGAATACAGAGCCCGGTTTGAACCACTTGTTCGA----- 7345
 Db 1459 CTCCTCCACCTCTCTTGGGAATACAGAGCCCTGGGTTTGAAGCTGACTTTATAGTGC 1518
 QY 7346 -----TAACTCTTCCAGCTGTGATTCAGTTTCCCTCCGCTCCCAACATGACCTGCAA 7397
 Db 1519 AGTGTATCTCTCTTTATCTGTGCTCTCTCAAAACCCAGTCTCAGACACTAAATGACAGA 1578
 QY 7398 ATGAGACCCACCTGACATGCTGCTGCTCAGCCAGCCAGAGAGCTGGGAGACTGTGGCAGGA 7457
 Db 1579 ACACCTTCTCTCTGACACACCTGACTGAGCCCAAGAGGCTGGG--GAGGCCCTAGGG 1636
 QY 7458 GACTGCAGGACCGAGGCGGACAGGGTTGTCTCTCGG----TACTTCTCTGAGCTGCTTTC 7513
 Db 1637 GAGCACCTGTATGAGAGGACAGAGCAGGGGCTCCAGCACCTTCTTCTGGACTGGCGTT 1696
 QY 7514 CACTCTTTGCTAGTACTCAGGCTCCAGAGCGGGGTGCGATCA-TCCTTAATTTATG 7572
 Db 1697 CACTCTCTCTGCTAGTCTTGGGCTCCAGCGGAGGGGTCCAGAGCACTCCCTAAATTTATG 1756
 QY 7573 TGC--TATAAATATTCAGGTGTATATAGAGAGCTATTTTTCTAAAGCATTTCCCTCTCC 7630
 Db 1757 TGCTATATAATATGTCAGATGATACATAGAGATCTATTTTTCTAAACATTTCCCTCTCC 1816
 QY 7631 CTGCTCTTCCACTGAGTGTGG 7654
 Db 1817 CACTCTCTCCACAGAGTGTGG 1840

RESULT 9

US-09-925-301-207
 ; Sequence 207, Application US/09925301
 ; Patent No. US20020052308A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 ; FILE REFERENCE: P2106
 ; CURRENT APPLICATION NUMBER: US/09/925,301
 ; PRIOR FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/05882
 ; PRIOR FILING DATE: 2000-03-08
 ; PRIOR APPLICATION NUMBER: 60/124,270
 ; PRIOR FILING DATE: 1999-03-12
 ; NUMBER OF SEQ ID NOS: 1694
 ; SOFTWARE: Patent in Ver. 2.0
 ; SEQ ID NO 207
 ; LENGTH: 1996
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-925-301-207

Query Match 2.8%; Score 215.6; DB 9; Length 1996;
 Best Local Similarity 65.6%; Pred. No. 4.5e-54;
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTAAACGGGAGATCCTGGAACGGGTGGATGCGGAGCTGCTCTACAAG 7058
 Db 1140 AGGTATTACTAAACGGGAGATCCTGGAACGGGTGGATGCGGAGCTGCTCTACAAG 1199
 QY 7059 TTGGCAAGAACTTAGTGGCTGAAGAGAGAGAGCTGCGAGAGTGGGAATTAAGGA 7118
 Db 1200 TTGGCAAAACTCAAGCGGTGAAGAGAGAGAGTCTCCAGAGTGGGAATTAAGGA 1259
 QY 7119 TCGGGCTGGACCCAGGACCTGACTCAGGCATGATCTCCAGACTGAGCCCTCTCTGGAA 7178

Db 1260 TTGGAATTAACCGGACCAAACTCAGCGACCACTCGAGGCTCGCAAACTTCTCTGGGA 1319
 QY 7179 GGACAGCAGCCTGAGCGCCCTTAAATGATGTTCCCTGTGTTCTGCTAGAGAG 7238
 Db 1320 GGACAGCAGCAGCAGATGG-CCCTCCATCGGGGAATGCTCCAGCTGTGCTGTGAGAG 1378
 QY 7239 GAAGAACTGTGGCGCTGCTCTGTC-AGTCTCTCAAGTGCAGCCCTTTGGCTC- 7293
 Db 1379 AAGCTGATGTTTGGTGTATTTGTCAGGCATGCTCTGGGACTCGGAGACTATGGCCTCGC 1438
 QY 7294 --TCTCTCGCCCTCTTGGGAATACAGAGCCCGGTTTGAACCACTTGTTCGA----- 7345
 Db 1439 CTCCTCCACCTCTCTTGGGAATACAGAGCCCTGGGTTTGAAGCTGACTTTATAGTSCA 1498
 QY 7346 -----TAACTCTTCCAGCTGTGATTCAGTTTCCCTCCGCTCCCAACATGGAAGTCAA 7397
 Db 1499 AGTGTATCTCTCTTTATCTGTGCTCTCTCAAAACCCAGTCTCAGACACTAAATGACAGA 1558
 QY 7398 ATGAGACCCACCTGACATGCTGCTGCTCAGCCAGAGAGCTGGGAGAGATGTGGCAGGA 7457
 Db 1559 ACACCTTCTCTCTGACACACCTGACTGAGCCCAAGAGGCTGGG--GAGGCCCTAGGG 1616
 QY 7458 GACTGCAGGACCGAGGCGGACAGGGTTGTCTCTCGG----TACTTCTCTGAGCTGCTTTC 7513
 Db 1617 GAGCACCTGTATGAGAGGACAGAGCAGGGGCTCCAGCACCTTCTTCTGACTGGCGTT 1676
 QY 7514 CACTCTTTGCTAGTACTCAGGCTCCAGAGCGGGGTGCGATCA-TCCTTAATTTATG 7572
 Db 1677 CACTCTCTCTGCTAGTCTTGGGCTCCAGCGGAGGGGTCCAGAGCACTCCCTAAATTTATG 1736
 QY 7573 TGC--TATAAATATTCAGGTGTATATAGAGAGCTATTTTTCTAAAGCATTTCCCTCTCC 7630
 Db 1737 TGCTATATAATATGTCAGATGATACATAGAGATCTATTTTTCTAAACATTTCCCTCTCC 1796
 QY 7631 CTGCTCTTCTCCACTGAGTGTGG 7654
 Db 1797 CACTCTCTCCACAGAGTGTGG 1820

RESULT 10

US-10-131-410-64
 ; Sequence 64, Application US/10131410
 ; Publication No. US20030235915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SPECHT, THOMAS
 ; APPLICANT: HINZMANN, BERND
 ; APPLICANT: SCHMITT, ARMIN
 ; APPLICANT: PILARSKY, CHRISTIAN
 ; APPLICANT: DAHL, EDGAR
 ; APPLICANT: ROSENTHAL, ANDRE
 ; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST
 ; TITLE OF INVENTION: TUMORS
 ; FILE REFERENCE: SCH-1763
 ; CURRENT APPLICATION NUMBER: US/10/131,410
 ; CURRENT FILING DATE: 2002-04-25
 ; PRIOR APPLICATION NUMBER: 09/646,673
 ; PRIOR FILING DATE: 2000-09-20
 ; PRIOR APPLICATION NUMBER: PCT/DE99/00908
 ; PRIOR FILING DATE: 1999-03-19
 ; NUMBER OF SEQ ID NOS: 202
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 64
 ; LENGTH: 2269
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-131-410-64

Query Match 2.8%; Score 215.6; DB 12; Length 2269;
 Best Local Similarity 65.6%; Pred. No. 4.9e-54;
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTAAACGGGAGATCCTGGAACGGGTGGATGCGGAGCTGCTCTACAAG 7058


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; LOCATION: (1145)
; OTHER INFORMATION: a, t, c, g, unknown or other
US-10-017-161-1953

Query Match
Best Local Similarity 2.4%; Score 185.8; DB 13; Length 1435;
Matches 220; Conservative. 0; Mismatches 57; Indels 0; Gaps 0;

QY 6181 TTGGATAGAGAGCCAGCTCGCTAGAGAGAGGGGACCCAGACTGATCAACTGAGG 6240
DB 442 TGGGCGGAGAGGCTGGCTGCTCCCTTGGGTGAGAGGGGACACTTGGATGGCAACTGATG 383
QY 6241 AAATCTTTCCTGTAGCCCCAGAGGTACTCACTGTGGAGTTTATCCGAGACATCCPA 6300
DB 382 GAGGCTGGCTTTCAGGCGCCAGAGGACCACTGTGGAGTTTATCCGAGACATCCTC 323
QY 6301 ATCCACCCGAGCTCAAGAGGCTCATGAAGTGGAGAACCGGACGAGGTGTTC 6360
DB 322 ATCCACCCGAGCTCAAGAGGCTCATGAAGTGGAGAACCGGATGAGCGGTCTTC 263
QY 6361 AAGTTTCTTCCCTCAGAGGCGGTGGCCCACTCTGGGCGCAGAGAGAACAGCAAC 6420
DB 262 AAGTTCTCGCTCCGAGGCTGTGGCCCACTATGGGCGCAGAGAGAACAGCAAC 203
QY 6421 ATGACCTATGAGAGCTGAGCGGAGCCATGAGGTGAG 6457
DB 202 ATGACCTACGAGAGCTGAGCGGCGCCATGAGGTGAG 166

RESULT 13
US-09-922-217-853/c
; Sequence 853, Application US/09922217
; Patent No. US2002076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secretist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-853

Query Match
Best Local Similarity 2.3%; Score 176.2; DB 9; Length 626;
Matches 196; Conservative. 0; Mismatches 33; Indels 0; Gaps 0;

QY 4147 TGCAGAGAGCCAGCTGAGTGGAGGCGGCCAGTTCTGTGTCGAGAGCCAGGTTCT 4206
DB 622 TACAGAGAGCCAGCTGTTGGGGAACACCCCACTTCTGTGTCGAGAGCCAGGTTCT 563
QY 4207 GGAGTGGATCAGCTACCAAGTGGAGAGAACCAAGTATGAGCCAGCTCCATCGACTTCTC 4266
DB 562 GGACTGGATCAGCTACCAAGTGGAGAGAACCAAGTATGAGCCAGAGCCATGACTTCTC 503
QY 4267 CGCTGCAACATGAGAGCCAGCCACCTCTGTGAGTGTGCGTGGAGAGCTGCGGCTAGT 4326
DB 502 ACGATGTGACATGATGAGCGCCACCTCTGCAATTGTGCTTGGAGAGCTGCGCTGCT 443
QY 4327 CTTTGGAGCTTGGAGAGCCAGCTCCATGCGCCAGCTTGGAGAGCTCAGT 4375
DB 442 CTTTGGGCTCTTGGGGAACCACTCCATGCGCCAGCTGCGAGACCTCACT 394

RESULT 15
US-10-025-380-853/c
; Sequence 853, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secretist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yaser A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedwick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-853

Query Match
Best Local Similarity 2.3%; Score 176.2; DB 10; Length 626;
Matches 196; Conservative. 0; Mismatches 33; Indels 0; Gaps 0;

QY 4147 TGCAGAGAGCCAGCTGAGTGGAGGCGGCCAGTTCTGTGTCGAGAGCCAGGTTCT 4206
DB 622 TACAGAGAGCCAGCTGTTGGGGAACACCCCACTTCTGTGTCGAGAGCCAGGTTCT 563
QY 4207 GGAGTGGATCAGCTACCAAGTGGAGAGAACCAAGTATGAGCCAGAGCCATGACTTCTC 4266
DB 562 GGACTGGATCAGCTACCAAGTGGAGAGAACCAAGTATGAGCCAGAGCCATGACTTCTC 503
QY 4267 CGCTGCAACATGAGAGCCAGCCACCTCTGTGAGTGTGCGTGGAGAGCTGCGGCTAGT 4326
DB 502 ACGATGTGACATGATGAGCGCCACCTCTGCAATTGTGCTTGGAGAGCTGCGCTGCT 443
QY 4327 CTTTGGAGCTTGGAGAGCCAGCTCCATGCGCCAGCTTGGAGAGCTCAGT 4375
DB 442 CTTTGGGCTCTTGGGGAACCACTCCATGCGCCAGCTGCGAGACCTCACT 394

RESULT 14
US-09-833-263-853/c
; Sequence 853, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-853

Query Match
Best Local Similarity 2.3%; Score 176.2; DB 10; Length 626;
Matches 196; Conservative. 0; Mismatches 33; Indels 0; Gaps 0;

QY 4147 TGCAGAGAGCCAGCTGAGTGGAGGCGGCCAGTTCTGTGTCGAGAGCCAGGTTCT 4206
DB 622 TACAGAGAGCCAGCTGTTGGGGAACACCCCACTTCTGTGTCGAGAGCCAGGTTCT 563
QY 4207 GGAGTGGATCAGCTACCAAGTGGAGAGAACCAAGTATGAGCCAGAGCCATGACTTCTC 4266
DB 562 GGACTGGATCAGCTACCAAGTGGAGAGAACCAAGTATGAGCCAGAGCCATGACTTCTC 503
QY 4267 CGCTGCAACATGAGAGCCAGCCACCTCTGTGAGTGTGCGTGGAGAGCTGCGGCTAGT 4326
DB 502 ACGATGTGACATGATGAGCGCCACCTCTGCAATTGTGCTTGGAGAGCTGCGCTGCT 443
QY 4327 CTTTGGAGCTTGGAGAGCCAGCTCCATGCGCCAGCTTGGAGAGCTCAGT 4375
DB 442 CTTTGGGCTCTTGGGGAACCACTCCATGCGCCAGCTGCGAGACCTCACT 394

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; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-853

Query Match      2.3%; Score 176.2; DB 14; Length 626;
Best Local Similarity 85.6%; Pred. No. 2.3e-42;
Matches 196; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

Qy 4147 TGCAGAGAGGCAAGCTGGACTAGCGAGCGCGGCCCGCCAGTTCTGGTTCGAAGAGACCCAGGTTCT 4206
Db      |||||||
Qy 622 TACAGAGAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTTCGAAGAGCGAGTTCT 563
Db      |||||||
Qy 4207 GGAGTGGATCAGCTACCAAGTGGAGAGAGAAAGATAGAGCCAGCTCCATCGACTTCTC 4266
Db      |||||||
Qy 562 GGACTGGATCAGCTACCAAGTGGAGAGAGAAAGATAGAGCCAGCTCCATCGACTTCTC 503
Db      |||||||
Qy 4267 CCGCTGCAACATGACGAGCGACCCCTCTGCAGCTGTGGCTGGAGGAGCTGGGCTAGT 4326
Db      |||||||
Qy 502 ACGATGTGACATGGATGGCGCCACCTCTTGCATTTGGCCCTTGAGGAGCTGGCTGTGT 443
Db      |||||||
Qy 4327 CTTTGGACCTCTGGGAGACCGAGCTCCATGCCAGCTTCGGACCTCAGT 4375
Db      |||||||
Qy 442 CTTTGGGCTCTGGGGGACCAACTCCATGCCAGCTGGAGACCTCACT 394
Db      |||||||
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OM nucleic - nucleic search, using sw model

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Title: US-08-978-217-14

Perfect score: 21
Sequence: 1 GTACCTCATGCCCGGCTCAG 21

Scoring table: IDENTITY NUC
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Searched: 2449703 seqs, 1841816367 residues

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Maximum DB seq length: 2000000000

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Maximum Match 100%
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- 3: /cgn2_6/prodata/1/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/prodata/1/pubpna/US06_PUBCOMB.seq:*
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- 11: /cgn2_6/prodata/1/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/prodata/1/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/prodata/1/pubpna/US09_PUB.seq:*
- 14: /cgn2_6/prodata/1/pubpna/US10A_PUBCOMB.seq:*
- 15: /cgn2_6/prodata/1/pubpna/US10B_PUBCOMB.seq:*
- 16: /cgn2_6/prodata/1/pubpna/US10_NEW_PUB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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C 2	21	100.0	451	10	US-09-998-598-32
C 3	21	100.0	499	10	US-09-998-598-2290
C 4	21	100.0	502	9	US-09-604-287A-282
C 5	21	100.0	502	10	US-09-339-338-282
C 6	21	100.0	502	11	US-09-551-621-282
C 7	21	100.0	502	13	US-10-124-805-282
C 8	21	100.0	502	14	US-10-007-805-282
C 9	21	100.0	502	15	US-10-076-622-282
C 10	21	100.0	1907	15	US-10-097-340-74
C 11	21	100.0	1915	10	US-09-964-824A-101
C 12	21	100.0	1915	10	US-09-964-824A-563
C 13	21	100.0	1915	10	US-09-880-107-3420
C 14	21	100.0	1915	10	US-09-967-768A-192
C 15	21	100.0	1917	9	US-09-922-217-1105

C 16	21	100.0	1917	14	US-10-025-380-1105
C 17	21	100.0	1956	12	US-10-264-049-756
C 18	21	100.0	1996	9	US-09-925-301-207
C 19	21	100.0	2269	12	US-10-131-410-64
C 20	19	90.5	275	15	US-10-060-036-3261
C 21	19	90.5	1435	12	US-10-292-798-1601
C 22	19	90.5	1435	13	US-10-017-161-1953
C 23	16.8	80.0	9025608	15	US-10-156-761-1
C 24	16.4	78.1	619	12	US-10-391-172-388
C 25	16.4	78.1	733	13	US-10-027-632-149050
C 26	16.4	78.1	733	14	US-10-027-632-149050
C 27	16.4	78.1	1851	15	US-10-156-761-5632
C 28	16.4	78.1	2094	13	US-10-027-632-109965
C 29	16.4	78.1	2094	14	US-10-027-632-109965
C 30	16.4	78.1	2212	10	US-09-919-497-25
C 31	16.4	78.1	2450	12	US-10-388-934-599
C 32	16.4	78.1	10322	10	US-09-764-868-1471
C 33	16.4	78.1	130427	15	US-10-175-523-87
C 34	16.4	78.1	9025608	15	US-10-156-761-1
C 35	16.2	77.1	366	15	US-10-187-267A-10
C 36	16.2	77.1	402	12	US-10-242-535A-7139
C 37	16.2	77.1	470	12	US-10-242-535A-42404
C 38	16.2	77.1	624	15	US-10-156-761-7031
C 39	16.2	77.1	1639	13	US-10-247-671-46
C 40	16.2	77.1	2266	12	US-10-388-263-201
C 41	16.2	77.1	2939	14	US-10-044-090-350
C 42	16.2	77.1	3121	12	US-10-439-249-6
C 43	16.2	77.1	3121	13	US-09-866-034-6
C 44	16.2	77.1	3121	13	US-10-210-951-65
C 45	16.2	77.1	3121	13	US-10-211-884-65

ALIGNMENTS

RESULT 1

US-10-305-720-927/c
; Sequence 927, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
; SOFTWARE: PERL Program
; SEQ ID NO 927
; LENGTH: 237
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040010136A1 773734
US-10-305-720-927

Query Match 100.0%; Score 21; DB 12; Length 237;
Best Local Similarity 100.0%; Pred. NO. 0.77;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTACCTCATGCCCGGCTCAG 21
Db 55 GTACCTCATGCCCGGCTCAG 35

RESULT 2

US-09-998-598-32/c
; Sequence 32, Application US/09998598
; Patent No. US20020150322A1
; GENERAL INFORMATION:
; APPLICANT: Stoik, John A.

```
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Mesgher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 32
; LENGTH: 451
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-32

Query Match      100.0%; Score 21; DB 10; Length 451;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21
DB 109 GTACCTCATGCGCCGGCTCAG 89

RESULT 3
US-09-998-598-2290
; Sequence 2290, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: Stoik, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Mesgher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 2290
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-2290

Query Match      100.0%; Score 21; DB 10; Length 499;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21
DB 156 GTACCTCATGCGCCGGCTCAG 176

RESULT 4
US-09-604-287A-282/c
; Sequence 282, Application US/09604287A
; Patent No. US20020064872A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C7
; CURRENT APPLICATION NUMBER: US/09/604,287A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 489

; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C5
; CURRENT APPLICATION NUMBER: US/09/551,621
; CURRENT FILING DATE: 2000-04-17
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-551-621-282/c

Query Match      100.0%; Score 21; DB 11; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-604-287A-282

Query Match      100.0%; Score 21; DB 9; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21
DB 458 GTACCTCATGCGCCGGCTCAG 438

RESULT 5
US-09-339-338-282/c
; Sequence 282, Application US/09339338A
; Patent No. US20020102602A1
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C2
; CURRENT APPLICATION NUMBER: US/09/339,338A
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-339-338-282

Query Match      100.0%; Score 21; DB 10; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21
DB 458 GTACCTCATGCGCCGGCTCAG 438

RESULT 6
US-09-551-621-282/c
; Sequence 282, Application US/09551621
; Publication No. US20030104366A1
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C5
; CURRENT APPLICATION NUMBER: US/09/551,621
; CURRENT FILING DATE: 2000-04-17
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-551-621-282

Query Match      100.0%; Score 21; DB 11; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 GTACCTCATGGCCCGGCTCAG 21
Db 458 GTACCTCATGGCCCGGCTCAG 438

; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
 ;
 ; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
 ;

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/ PRIOR FILING DATE: 2001-09-26
/ PRIOR APPLICATION NUMBER: 60/311,732
/ PRIOR FILING DATE: 2001-08-10
/ PRIOR APPLICATION NUMBER: 60/325,102
/ PRIOR FILING DATE: 2001-09-26
/ PRIOR APPLICATION NUMBER: 60/323,580
/ PRIOR FILING DATE: 2001-09-19
/ NUMBER OF SEQ ID NOS: 363
/ SOFTWARE: FastSeq for Windows Version 4.0

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; SEQ ID NO 74
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-097-340-74

Query Match 100.0%; Score 21; DB 15; Length 1907;
Best Local Similarity 100.0%; Pred. No. 0.65;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCCCGGCTCAG 21
Db 1100 GTACCTCATGCCCGGCTCAG 1080

RESULT 11

US-09-964-824A-101/c
; Sequence 101, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 101
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-101

Query Match 100.0%; Score 21; DB 10; Length 1915;
Best Local Similarity 100.0%; Pred. No. 0.65;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCCCGGCTCAG 21
Db 1124 GTACCTCATGCCCGGCTCAG 1104

RESULT 12

US-09-964-824A-563/c
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563

Query Match 100.0%; Score 21; DB 10; Length 1915;
Best Local Similarity 100.0%; Pred. No. 0.65;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCCCGGCTCAG 21
Db 1124 GTACCTCATGCCCGGCTCAG 1104

RESULT 13

US-09-880-107-3420/c
; Sequence 3420, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Dargi T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3420
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420

Query Match 100.0%; Score 21; DB 10; Length 1915;
Best Local Similarity 100.0%; Pred. No. 0.65;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCCCGGCTCAG 21
Db 1124 GTACCTCATGCCCGGCTCAG 1104

RESULT 14

US-09-967-768A-192/c
; Sequence 192, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signat
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-192

Query Match 100.0%; Score 21; DB 10; Length 1915;
Best Local Similarity 100.0%; Pred. No. 0.65;

GenCore version 5.1.6
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Title: US-08-978-217-13

Perfect score: 21

Sequence: 1 CCGGACATCTCTCATCCACCC 21

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Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*

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- 2: /cgn2_6/prodata/1/pubna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/prodata/1/pubna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/prodata/1/pubna/US06_PUBCOMB.seq.*
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- 6: /cgn2_6/prodata/1/pubna/PCTUS_PUBCOMB.seq.*
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- 14: /cgn2_6/prodata/1/pubna/US10_PUBCOMB.seq.*
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- 18: /cgn2_6/prodata/1/pubna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	21	100.0	499	10	US-09-998-598-2290
3	21	100.0	502	9	US-09-604-287A-282
4	21	100.0	502	10	US-09-339-338-282
5	21	100.0	502	11	US-09-551-621-282
6	21	100.0	502	13	US-10-124-805-282
7	21	100.0	502	14	US-10-007-805-282
8	21	100.0	502	15	US-10-076-622-282
9	21	100.0	1435	12	US-10-292-798-1601
10	21	100.0	1435	13	US-10-017-161-1953
11	21	100.0	1907	15	US-10-097-340-74
12	21	100.0	1915	10	US-09-964-824A-101
13	21	100.0	1915	10	US-09-964-824A-563
14	21	100.0	1915	10	US-09-880-107-3420
15	21	100.0	1915	10	US-09-967-768A-192

16	21	100.0	1917	9	US-09-922-217-1105	Sequence 1105, Ap
17	21	100.0	1917	14	US-10-025-380-1105	Sequence 1105, Ap
18	21	100.0	1956	12	US-10-264-049-756	Sequence 756, App
19	21	100.0	1956	9	US-09-925-301-207	Sequence 207, App
20	21	100.0	2269	12	US-10-131-410-64	Sequence 64, Appl
21	17.8	84.8	250	9	US-09-864-761-21324	Sequence 21324, A
22	17.8	84.8	472	9	US-09-864-761-4580	Sequence 4580, Ap
23	16.8	80.0	471	11	US-09-918-995-23822	Sequence 23822, A
24	16.8	80.0	792	13	US-10-027-632-138998	Sequence 138998, A
25	16.8	80.0	792	13	US-10-027-632-138998	Sequence 138998, A
26	16.8	80.0	792	14	US-10-027-632-138998	Sequence 138998, A
27	16.8	80.0	792	14	US-10-027-632-138998	Sequence 138998, A
28	16.8	80.0	825	12	US-10-369-493-43197	Sequence 43197, A
29	16.8	80.0	1626	15	US-10-156-761-4976	Sequence 4976, Ap
30	16.8	80.0	2539	15	US-10-198-846-13456	Sequence 13456, A
31	16.8	80.0	3049	13	US-10-120-988-186	Sequence 186, App
32	16.8	80.0	3083	12	US-10-138-588-21	Sequence 21, Appl
33	16.8	80.0	9025608	15	US-10-156-761-1	Sequence 1, Appl
34	16.4	78.1	25	12	US-10-161-493-166	Sequence 166, App
35	16.4	78.1	344	11	US-09-918-995-23054	Sequence 23054, A
36	16.4	78.1	375	15	US-10-156-761-3399	Sequence 3399, Ap
37	16.4	78.1	1322	12	US-10-264-237-1190	Sequence 1190, Ap
38	16.4	78.1	2427	12	US-10-369-493-33512	Sequence 33512, A
39	16.4	78.1	3622	12	US-10-159-563-347	Sequence 347, App
40	16.4	78.1	3653	12	US-10-161-493-17	Sequence 17, Appl
41	16.4	78.1	3657	12	US-10-062-674-1718	Sequence 1718, Ap
42	16.2	77.1	163	11	US-09-158-722-1	Sequence 1, Appl
43	16.2	77.1	279	12	US-10-242-535A-3649	Sequence 3649, Ap
44	16.2	77.1	342	15	US-10-066-543-2502	Sequence 2502, Ap
45	16.2	77.1	361	9	US-09-735-705-303	Sequence 303, App

ALIGNMENTS

RESULT 1

US-10-060-036-3261
; Sequence 3261, Application US/10060036
; Publication No. US20030073144A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Persing, David H.
; APPLICANT: Hepler, William T.
; APPLICANT: Jiang, Yugu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.566
; CURRENT APPLICATION NUMBER: US/10/060,036
; CURRENT FILING DATE: 2002-01-30
; NUMBER OF SEQ ID NOS: 4560
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3261
; LENGTH: 275
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-036-3261

Query Match 100.0%; Score 21; DB 15; Length 275;
Best Local Similarity 100.0%; Pred. No. 2.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTCATCCACCC 21
Db 109 CCGGACATCTCTCATCCACCC 129

RESULT 2

US-09-998-598-2290/c
; Sequence 2290, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:

Qy 1 CCGGACATCTCTATCCACC 21
 Db 290 CCGGACATCTCTATCCACC 310

RESULT 7

US-10-007-805-282
 ; Sequence 282, Application US/10007805
 ; Publication No. US20020150581A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Dillon, David C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Hepler, William T.
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Vedvick, Thomas S.
 ; APPLICANT: McNeill, Patricia D.
 ; APPLICANT: Durham, Margareta
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
 ; FILE REFERENCE: 210121.470C10
 ; CURRENT APPLICATION NUMBER: US/10/007.805
 ; CURRENT FILING DATE: 2001-12-07
 ; NUMBER OF SEQ ID NOS: 593
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 282
 ; LENGTH: 502
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-007-805-282

Query Match 100.0%; Score 21; DB 14; Length 502;
 Best Local Similarity 100.0%; Pred. No. 2.4;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTATCCACC 21
 Db 290 CCGGACATCTCTATCCACC 310

RESULT 8

US-10-076-622-282
 ; Sequence 282, Application US/10076622
 ; Publication No. US20030023036A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Houghton, Raymond L.
 ; APPLICANT: Sleath, Paul R.
 ; APPLICANT: Persing, David H.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
 ; FILE REFERENCE: 210121.470C11
 ; CURRENT APPLICATION NUMBER: US/10/076.622
 ; CURRENT FILING DATE: 2002-02-13
 ; NUMBER OF SEQ ID NOS: 627
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 282
 ; LENGTH: 502
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-076-622-282

Query Match 100.0%; Score 21; DB 15; Length 502;
 Best Local Similarity 100.0%; Pred. No. 2.4;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTATCCACC 21
 Db 290 CCGGACATCTCTATCCACC 310

RESULT 9

US-10-292-798-1601/c
 ; Sequence 1601, Application US/10292798
 ; Publication No. US20030235833A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SUMA, MAKIKO
 ; APPLICANT: ASAI, KIYOSHI
 ; APPLICANT: AKIYAMA, YUTAKA
 ; APPLICANT: ABURATANI, HIROYUKI
 ; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
 ; FILE REFERENCE: 084335/166
 ; CURRENT APPLICATION NUMBER: US/10/292.798
 ; CURRENT FILING DATE: 2002-11-13
 ; PRIOR APPLICATION NUMBER: 10/017,161
 ; PRIOR FILING DATE: 2001-12-18
 ; PRIOR APPLICATION NUMBER: JP 2001-246789
 ; PRIOR FILING DATE: 2001-06-18
 ; NUMBER OF SEQ ID NOS: 2070
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 1601
 ; LENGTH: 1435

TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 LOCATION: source
 FEATURE:
 LOCATION: (1)..(1435)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (201)..(1235)
 FEATURE:
 NAME/KEY: modified base
 LOCATION: (1040)..(1139)
 OTHER INFORMATION: a, t, c, g, unknown or other
 NAME/KEY: (1145)..(1145)
 OTHER INFORMATION: a, t, c, g, unknown or other
 US-10-292-798-1601

Query Match 100.0%; Score 21; DB 12; Length 1435;
 Best Local Similarity 100.0%; Pred. No. 2.4;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTATCCACC 21
 Db 335 CCGGACATCTCTATCCACC 315

RESULT 10

US-10-017-161-1953/c
 ; Sequence 1953, Application US/10017161
 ; Publication No. US20030143668A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SUMA, MAKIKO
 ; APPLICANT: ASAI, KIYOSHI
 ; APPLICANT: AKIYAMA, YUTAKA
 ; APPLICANT: ABURATANI, HIROYUKI
 ; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
 ; FILE REFERENCE: 084335/0152
 ; CURRENT APPLICATION NUMBER: US/10/017,161
 ; CURRENT FILING DATE: 2002-12-18
 ; PRIOR APPLICATION NUMBER: JP 2001/246789
 ; PRIOR FILING DATE: 2001-06-18
 ; NUMBER OF SEQ ID NOS: 2430
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 1953
 ; LENGTH: 1435

TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: source

LOCATION: (1)...(1435)
FEATURE:
NAME/KEY: CDS
LOCATION: (201)...(1235)
FEATURE:
NAME/KEY: modified base
LOCATION: (1040)...(1139)
OTHER INFORMATION: a, t, c, g, unknown or other
FEATURE:
NAME/KEY: modified_base
LOCATION: (1145)
OTHER INFORMATION: a, t, c, g, unknown or other
US-10-017-161-1953

Query Match 100.0%; Score 21; DB 13; Length 1435;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTATCCACCC 21
Db 335 CCGGACATCTCTATCCACCC 315

RESULT 11

US-10-097-340-74
Sequence 74, Application US/10097340
Publication No. US20030087250A1

GENERAL INFORMATION:

APPLICANT: John MONAHAN
APPLICANT: Manjula GANNAVARAPU
APPLICANT: Sebastian HOERSCH
APPLICANT: Shubhangi KAWATKAR
APPLICANT: Steve G. KOVATS
APPLICANT: Rachel E. MEYERS
APPLICANT: Michael MORRISSEY
APPLICANT: Peter OLANDT
APPLICANT: Ami SEN
APPLICANT: Peter VEIBY
APPLICANT: Gordon B. MILLS
APPLICANT: Robert C. BAST, Jr.
APPLICANT: Karen LU
APPLICANT: Rosemarie SCHMANDT
APPLICANT: Xumei ZHAO
APPLICANT: Karen GLATT

TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
Assessment, Prevention, and Therapy of Ovarian Cancer

TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
Assessment, Prevention, and Therapy of Ovarian Cancer

FILE REFERENCE: MRI-030

CURRENT APPLICATION NUMBER: US/10/097,340

CURRENT FILING DATE: 2002-03-14

PRIOR APPLICATION NUMBER: 60/276,025

PRIOR FILING DATE: 2001-03-14

PRIOR FILING DATE: 2001-03-14

PRIOR FILING DATE: 2001-03-14

PRIOR FILING DATE: 2001-03-14

PRIOR FILING DATE: 2001-03-14

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PRIOR FILING DATE: 2001-03-14

PRIOR FILING DATE: 2001-03-14

Job time : 13.4034 secs

RESULT 14

US-09-880-107-3420
; Sequence 3420, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3420
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420

Query Match 100.0%; Score 21; DB 10; Length 1915;
Best Local Similarity 100.0%; Pred. No. 2,3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCCTCATCCACC 21
Db 956 CCGGACATCCTCATCCACC 976

RESULT 15

US-09-967-768A-192
; Sequence 192, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meera
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 192
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-192

Query Match 100.0%; Score 21; DB 10; Length 1915;
Best Local Similarity 100.0%; Pred. No. 2,3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCCTCATCCACC 21
Db 956 CCGGACATCCTCATCCACC 976

Search completed: February 13, 2004, 11:48:25

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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 12, 2004, 21:34:51 ; Search time 25.2461 Seconds
(without alignments)
2334.540 Million cell updates/sec

Title: US-08-978-217-12

Perfect score: 84
Sequence: 1 KNSGCKEELQSRN 16

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Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-MAXLEN=2000000000 -USER=US08978217@cgn_1.1_690 @runat_10022004_133827_20514
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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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Published Applications NA:
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12: /cgn2_6/ptodata/1/pubna/US09_NEW_PUB.seq:
13: /cgn2_6/ptodata/1/pubna/US09A_NEW_PUB.seq:
14: /cgn2_6/ptodata/1/pubna/US10A_PUBCOMB.seq:
15: /cgn2_6/ptodata/1/pubna/US10B_PUBCOMB.seq:
16: /cgn2_6/ptodata/1/pubna/US10_NEW_PUB.seq:
17: /cgn2_6/ptodata/1/pubna/US10A_NEW_PUB.seq:
18: /cgn2_6/ptodata/1/pubna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description

1	84	100.0	237	12	US-10-305-720-927	Sequence 927, App
2	84	100.0	451	10	US-09-998-598-32	Sequence 32, Appl
3	84	100.0	499	10	US-09-998-598-2290	Sequence 2290, Ap
4	84	100.0	528	15	US-10-068-543-3233	Sequence 3233, Ap
5	84	100.0	620	15	US-10-060-036-2379	Sequence 2379, Ap
6	84	100.0	1907	15	US-10-097-340-74	Sequence 74, Appl
7	84	100.0	1915	10	US-09-964-824A-101	Sequence 101, App
8	84	100.0	1915	10	US-09-964-824A-563	Sequence 563, App
9	84	100.0	1915	10	US-09-880-107-3420	Sequence 3420, Ap
10	84	100.0	1915	10	US-09-967-768A-192	Sequence 192, App
11	84	100.0	1917	9	US-09-922-217-1105	Sequence 1105, Ap
12	84	100.0	1917	14	US-10-025-380-1105	Sequence 1105, Ap
13	84	100.0	1956	12	US-10-264-049-756	Sequence 756, App
14	84	100.0	1996	9	US-09-925-301-207	Sequence 207, App
15	84	100.0	2269	12	US-10-131-410-64	Sequence 64, Appl
16	57	61.9	1681	11	US-09-986-480-40	Sequence 40, Appl
17	52	61.9	1601	12	US-10-063-674-1730	Sequence 1730, Ap
18	50	59.5	535	13	US-10-029-386-3052	Sequence 3052, Ap
19	50	59.5	11788	13	US-10-316-253-263	Sequence 263, App
20	49	58.3	807	13	US-10-027-632-167020	Sequence 167020,
21	48	57.1	174	10	US-09-933-797-678	Sequence 678, App
22	47	56.0	402	11	US-09-918-995-33421	Sequence 33421, A
23	47	56.0	254366	11	US-09-822-871-3	Sequence 3, Appli
24	46.5	55.4	787	13	US-10-027-632-125191	Sequence 125191,
25	46.5	55.4	787	14	US-10-027-632-125191	Sequence 125191,
26	46	54.8	552	13	US-10-027-632-90917	Sequence 90917, A
27	46	54.8	552	14	US-10-027-632-90917	Sequence 90917, A
28	46	54.8	552	14	US-09-938-842A-4493	Sequence 4493, Ap
29	46	54.8	1571	12	US-09-938-842A-4493	Sequence 4493, Ap
30	46	54.8	3060	10	US-09-938-842A-760	Sequence 760, App
31	46	54.8	3060	12	US-09-938-842A-760	Sequence 760, App
32	46	54.8	3096	13	US-10-027-632-112161	Sequence 112161,
33	46	54.8	3096	13	US-10-027-632-112162	Sequence 112162,
34	46	54.8	3096	13	US-10-027-632-113958	Sequence 113958,
35	46	54.8	3096	13	US-10-027-632-113958	Sequence 113958,
36	46	54.8	3096	14	US-10-027-632-112161	Sequence 112161,
37	46	54.8	3096	14	US-10-027-632-112162	Sequence 112162,
38	46	54.8	3096	14	US-10-027-632-113958	Sequence 113958,
39	46	54.8	3096	14	US-10-027-632-113958	Sequence 113958,
40	46	54.8	8100	13	US-09-190-246-4	Sequence 4, Appli
41	46	54.8	10610	11	US-09-994-412-3	Sequence 3, Appli
42	46	54.8	11517	10	US-09-901-106-1	Sequence 1, Appli
43	46	54.8	15538	13	US-09-190-246-1	Sequence 1, Appli
44	46	54.8	15538	13	US-09-983-965-4018	Sequence 4018, Ap
45	45	53.6	463	10		

ALIGNMENTS

RESULT 1

US-10-305-720-927
; Sequence 927, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expressio
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
; SOFTWARE: PERL Program
; SEQ ID NO 927
; LENGTH: 237
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040010136A1 773734
US-10-305-720-927

Alignment Scores:

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Pred. No.: 3 23e-06 Length: 237
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 12 Gaps: 0

US-08-978-217-12 (1-16) x US-10-305-720-927 (1-237)

Qy 1 LysAsnSerSerGlyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 116 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 163

RESULT 2
US-09-998-598-32
; Sequence 32, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: Stolk, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Meagher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 32
; LENGTH: 451
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-32

Alignment Scores:
Pred. No.: 6.43e-06 Length: 451
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-998-598-32 (1-451)

Qy 1 LysAsnSerSerGlyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 170 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 217

RESULT 3
US-09-998-598-2290/c
; Sequence 2290, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: Stolk, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Meagher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 2290
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-2290

Alignment Scores:
Pred. No.: 7.17e-06 Length: 499
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Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-998-598-2290 (1-499)

Qy 1 LysAsnSerSerGlyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 95 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 48

RESULT 4
US-10-066-543-3233
; Sequence 3233, Application US/10066543
; Publication No. US20030087818A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Pye, Ruth A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Indrias, Carol Yoseph
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Carter, Barrick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Smith, Carole L.
; APPLICANT: Durham, Margarita
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.563
; CURRENT APPLICATION NUMBER: US/10/066,543
; CURRENT FILING DATE: 2002-01-31
; NUMBER OF SEQ ID NOS: 3417
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3233
; LENGTH: 528
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 438
; OTHER INFORMATION: n = A,T,C or G
US-10-066-543-3233

Alignment Scores:
Pred. No.: 7.62e-06 Length: 528
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 15 Gaps: 0

US-08-978-217-12 (1-16) x US-10-066-543-3233 (1-528)

Qy 1 LysAsnSerSerGlyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 63 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 110

RESULT 5
US-10-060-036-2379
; Sequence 2379, Application US/10060036
; Publication No. US20030073144A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Persing, David H.
; APPLICANT: Hepler, William T.
; APPLICANT: Jiang, Yugu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER
; FILE REFERENCE: 210121.566
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; CURRENT APPLICATION NUMBER: US/10/060,036
; CURRENT FILING DATE: 2002-01-30
; NUMBER OF SEQ ID NOS: 4560
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2379
; LENGTH: 620
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 169, 456, 487, 488, 602
; OTHER INFORMATION: n = A,T,C or G
US-10-060-036-2379

Alignment Scores:
Pred. No.: 9,05e-06 Length: 620
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 15 Gaps: 0

US-08-978-217-12 (1-16) x US-10-060-036-2379 (1-620)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db 63 AAAAATCAAGCGCTGGAAGGAGGAGGTTCTCCAGAGTCGGAAC 110

RESULT 6

US-10-097-340-74
; Sequence 74, Application US/10097340
; Publication No. US20030087250A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVAPU
; APPLICANT: Sebastian HOERSCH
; APPLICANT: Shubhangi KAMATKAR
; APPLICANT: Steve G. KOVATS
; APPLICANT: Rachel B. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Ami SEN
; APPLICANT: Peter VEIBY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. EAST, Jr.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHWANDT
; APPLICANT: Xumei ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; FILE REFERENCE: MRI-030
; CURRENT APPLICATION NUMBER: US/10/097,340
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26
; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 1907
; TYPE: DNA

; ORGANISM: Homo sapiens
US-10-097-340-74

Alignment Scores:
Pred. No.: 3,02e-05 Length: 1907
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 15 Gaps: 0

US-08-978-217-12 (1-16) x US-10-097-340-74 (1-1907)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db 1161 AAAAATCAAGCGCTGGAAGGAGGAGGTTCTCCAGAGTCGGAAC 1208

RESULT 7

US-09-964-824A-101
; Sequence 101, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 101
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-101

Alignment Scores:

Pred. No.: 3,03e-05 Length: 1915
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-964-824A-101 (1-1915)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db 1185 AAAAATCAAGCGCTGGAAGGAGGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 8

US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28


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; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563

Alignment Scores:
Pred. No.: 3.03e-05 Length: 1915
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-964-824A-563 (1-1915)

Qy 1 LysAsnSerSerglyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 1185 AAAAACTCAAGCGGCTGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 9
US-09-880-107-3420
; Sequence 3420, Application US/09980107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Dargi T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3420
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420

Alignment Scores:
Pred. No.: 3.03e-05 Length: 1915
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-880-107-3420 (1-1915)

Qy 1 LysAsnSerSerglyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 1185 AAAAACTCAAGCGGCTGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 10
US-09-967-768A-192
; Sequence 192, Application US/09967768A
; Patent No. US2002015087A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 68290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
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; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-192

Alignment Scores:
Pred. No.: 3.03e-05 Length: 1915
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-967-768A-192 (1-1915)

Qy 1 LysAsnSerSerglyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 1185 AAAAACTCAAGCGGCTGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 11
US-09-922-217-1105
; Sequence 1105, Application US/09922217
; Patent No. US2002007641A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yudi
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1105

Alignment Scores:
Pred. No.: 3.03e-05 Length: 1917
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-12 (1-16) x US-09-922-217-1105 (1-1917)

Qy 1 LysAsnSerSerglyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 1187 AAAAACTCAAGCGGCTGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1234
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RESULT 12
US-10-025-380-1105
; Sequence 1105, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-1105

Alignment Scores:
Pred. No.: 3,03e-05 Length: 1917
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-08-978-217-12 (1-16) x US-10-025-380-1105 (1-1917)

QY 1 LysAsnSerSerGlyTTPyLysGluGluValLeuGlnSerArgAsn 16
DB 1187 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1234

RESULT 13
US-10-264-049-756
; Sequence 756, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133P1
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
; PRIOR FILING DATE: 2002-10-07
; PRIOR FILING DATE: 2001-06-07
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 756
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-264-049-756

Alignment Scores:
Pred. No.: 3.1e-05 Length: 1956
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-12 (1-16) x US-09-925-301-207 (1-1996)

QY 1 LysAsnSerSerGlyTTPyLysGluGluValLeuGlnSerArgAsn 16
DB 1206 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1253

RESULT 14
US-09-925-301-207
; Sequence 207, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 207
; LENGTH: 1996
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-301-207

Alignment Scores:
Pred. No.: 3.17e-05 Length: 1996
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-12 (1-16) x US-10-264-049-756 (1-1956)

QY 1 LysAsnSerSerGlyTTPyLysGluGluValLeuGlnSerArgAsn 16
DB 1226 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1273

RESULT 15
US-10-131-410-64
; Sequence 64, Application US/10131410
; Publication No. US20030235915A1
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST
; FILE REFERENCE: SCH-1763
; CURRENT APPLICATION NUMBER: US/10/131,410
; CURRENT FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: 09/646,673
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: PCT/DE99/00908
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 202
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 64
; LENGTH: 2269
; TYPE: DNA
; ORGANISM: Homo sapiens

Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 12 Gaps: 0

US-08-978-217-12 (1-16) x US-10-264-049-756 (1-1956)

QY 1 LysAsnSerSerGlyTTPyLysGluGluValLeuGlnSerArgAsn 16
DB 1226 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1273

RESULT 14
US-09-925-301-207
; Sequence 207, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 207
; LENGTH: 1996
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-301-207

Alignment Scores:
Pred. No.: 3.17e-05 Length: 1996
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-12 (1-16) x US-09-925-301-207 (1-1996)

QY 1 LysAsnSerSerGlyTTPyLysGluGluValLeuGlnSerArgAsn 16
DB 1206 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1253

RESULT 15
US-10-131-410-64
; Sequence 64, Application US/10131410
; Publication No. US20030235915A1
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST
; FILE REFERENCE: SCH-1763
; CURRENT APPLICATION NUMBER: US/10/131,410
; CURRENT FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: 09/646,673
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: PCT/DE99/00908
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 202
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 64
; LENGTH: 2269
; TYPE: DNA
; ORGANISM: Homo sapiens

US-10-131-410-64

Alignment Scores:

Pred. No.:	3.63e-05	Length:	2269
Score:	84.00	Matches:	16
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	12	Gaps:	0

US-08-978-217-12 (1-16) x US-10-131-410-64 (1-2269)

Qy 1 LysSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
 DB: 916 AAAAACTCAGCGGTGGAGGAGAGAGGTTCTCCAGAGTCCGAAC 963

Search completed: February 13, 2004, 01:46:08
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Run on: February 12, 2004, 21:34:51 / Search time 132.542 Seconds
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Perfect score: 445

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Database: Published Applications NA:

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11: /cgn2_6/ptodata1/pubna/US09C_PUBCOMB.seq*
12: /cgn2_6/ptodata1/pubna/US09_NEW_PUB.seq*
13: /cgn2_6/ptodata1/pubna/US09_NEW_PUB.seq2*
14: /cgn2_6/ptodata1/pubna/US10A_PUBCOMB.seq*
15: /cgn2_6/ptodata1/pubna/US10B_PUBCOMB.seq*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description

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C	3	445	100.0	563	14	US-10-025-380-944	Sequence 944, App
C	4	445	100.0	626	9	US-09-922-217-853	Sequence 853, App
C	5	445	100.0	626	14	US-09-833-263-853	Sequence 853, App
C	6	445	100.0	626	14	US-10-025-380-853	Sequence 853, App
C	7	445	100.0	1907	15	US-10-097-340-74	Sequence 74, Appl
C	8	445	100.0	1915	10	US-09-964-824A-101	Sequence 101, App
C	9	445	100.0	1915	10	US-09-964-824A-563	Sequence 563, App
C	10	445	100.0	1915	10	US-09-880-107-3420	Sequence 3420, App
C	11	445	100.0	1915	10	US-09-967-768A-192	Sequence 192, App
C	12	445	100.0	1917	9	US-09-922-217-1105	Sequence 1105, App
C	13	445	100.0	1917	14	US-10-025-380-1105	Sequence 1105, App
C	14	445	100.0	1956	12	US-10-264-049-756	Sequence 756, App
C	15	445	100.0	1996	9	US-09-925-301-207	Sequence 207, App
C	16	445	100.0	2269	12	US-10-131-410-64	Sequence 64, Appl
C	17	439	98.7	355	10	US-09-867-701-4818	Sequence 4818, App
C	18	305	68.5	174	10	US-09-998-598-1740	Sequence 1740, App
C	19	111	24.9	437	10	US-09-998-598-2216	Sequence 2216, App
C	20	84	18.9	641	13	US-10-027-632-199194	Sequence 199194, App
C	21	84	18.9	641	13	US-10-027-632-199195	Sequence 199195, App
C	22	84	18.9	641	13	US-10-027-632-199196	Sequence 199196, App
C	23	84	18.9	641	13	US-10-027-632-199197	Sequence 199197, App
C	24	84	18.9	641	13	US-10-027-632-199198	Sequence 199198, App
C	25	84	18.9	641	14	US-10-027-632-199194	Sequence 199194, App
C	26	84	18.9	641	14	US-10-027-632-199195	Sequence 199195, App
C	27	84	18.9	641	14	US-10-027-632-199196	Sequence 199196, App
C	28	84	18.9	641	14	US-10-027-632-199197	Sequence 199197, App
C	29	84	18.9	641	14	US-10-027-632-199198	Sequence 199198, App
C	30	73.5	16.5	1341	15	US-10-156-761-5009	Sequence 5009, App
C	31	73.5	16.5	9025608	15	US-10-156-761-1	Sequence 1, Appl
C	32	73	16.4	1005	12	US-10-369-493-40562	Sequence 40562, A
C	33	72	16.2	353	9	US-09-864-761-3195	Sequence 3195, App
C	34	72	16.2	398	10	US-09-854-133-697	Sequence 697, App
C	35	72	16.2	398	15	US-10-144-649A-697	Sequence 697, App
C	36	72	16.2	407	11	US-09-918-995-36824	Sequence 36824, A
C	37	72	16.2	410	11	US-09-918-995-16413	Sequence 16413, A
C	38	72	16.2	521	10	US-09-884-441-139	Sequence 139, App
C	39	72	16.2	521	11	US-09-907-969-139	Sequence 139, App
C	40	72	16.2	521	13	US-09-827-271-139	Sequence 139, App
C	41	72	16.2	521	15	US-10-198-053-139	Sequence 139, App
C	42	72	16.2	551	10	US-09-884-441-92	Sequence 92, Appl
C	43	72	16.2	551	11	US-09-907-969-92	Sequence 92, Appl
C	44	72	16.2	551	13	US-09-827-271-92	Sequence 92, Appl
C	45	72	16.2	551	15	US-10-198-053-92	Sequence 92, Appl

ALIGNMENTS

RESULT 1
US-09-922-217-944/c
; Sequence 944, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Scrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aljun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO	944	LENGTH: 563	TYPE: DNA	ORGANISM: Homo sapiens	US-09-922-217-944
Alignment Scores:					
Pred. No.:	1,02e-55	Length:	563		
Score:	445.00	Matches:	84		
Percent Similarity:	100.00%	Conservative:	0		
Best Local Similarity:	100.00%	Mismatches:	0		
Query Match:	100.00%	Indels:	0		
DB:	9	Gaps:	0		
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Qy	1	AsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla	20		
Db	472	AAATTGGCCCTTGAGGAGCTGGCTCTGGTCTTTGGGCTCTGGGGACCAACTCCATGCC	413		
Qy	21	GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeu	40		
Db	412	CAGCTCGAGAGCTCACTTCCAGCTCTTGTAGTGGCTCAGTTGGATCAATTGAGCTGCTG	353		
Qy	41	GlulysAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer	60		
Db	352	GAGAAGGATGGCATGGCTTCCAGGAGGCCCTTAGACCCAGGCCCTTTGACCCGGCAGC	293		
Qy	61	ProPheAlaGlnGluLeuAspGlyGlnGlnAlaSerProTyHisProGlySer	80		
Db	292	CCCTTTGCCAGGAGCTGCTGGACGCGTCAAGCCAGCCCTTACCACCCGGCAGC	233		
Qy	81	CysGlyAlaGly	84		
Db	232	TGTGGCGCAGGA	221		
RESULT 2					
US-09-833-263-944/c					
Sequence 944, Application US/09833263					
Patent No. US20020110547A1					
GENERAL INFORMATION:					
APPLICANT: Wang, Aijun					
APPLICANT: Clapper, Jonathan D.					
APPLICANT: Stolk, John A.					
APPLICANT: Meagher, Madeleine J.					
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND					
FILE REFERENCE: 210121.471C12					
CURRENT APPLICATION NUMBER: US/09/833,263					
CURRENT FILING DATE: 2001-04-10					
NUMBER OF SEQ ID NOS: 1093					
SOFTWARE: FastSeq for Windows Version 3.0					
SEQ ID NO 944					
LENGTH: 563					
TYPE: DNA					
ORGANISM: Homo sapien					
US-09-833-263-944					
Alignment Scores:					
Pred. No.:	1,02e-55	Length:	563		
Score:	445.00	Matches:	84		
Percent Similarity:	100.00%	Conservative:	0		
Best Local Similarity:	100.00%	Mismatches:	0		
Query Match:	100.00%	Indels:	0		
DB:	10	Gaps:	0		
US-08-978-217-7 (1-84) x US-09-833-263-944 (1-563)					
Qy	1	AsnCysAlaLeuGlnGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla	20		
Db	472	AAATTGGCCCTTGAGGAGCTGGCTCTGGTCTTTGGGCTCTGGGGACCAACTCCATGCC	413		
Qy	21	GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeu	40		

Db 292 CCCTTTGCCAGAGCTGCTGGACGAGCTCAGCAGCGCCCTACCAACCCCGGACG 233
QY 81 CysGlyAlaGly 84
Db 232 TGTGGCCAGGA 221

RESULT 4

US-09-922-217-853/c
; Sequence 853, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-853

Alignment Scores:
Pred. No.: 1.16e-55 Length: 626
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-09-922-217-853 (1-626)

QY 1 AsnCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 471 AATTGTGCCCTTGAGGAGCTGGCTCTGTTGGGCTCTGGGGGACCACTCCATGCC 412
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleIleGluLeu 40
Db 411 CAGCTCGAGAGCTCACTTCCAGCTCTTCTGTAGAGCTCAGTTGGATCATTGAGCTGTG 352
QY 41 GluLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 351 GAGAGGATGGCATGGCTTCCAGGAGGCTTAGACCCAGGCGCTTTGACCGGGCAGC 292
QY 61 ProPheAlaGlnGluLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80
Db 291 CCCTTTGCCAGAGCTGCTGGACGAGCTCAGCGCTCAGCAAGCCAGCCCTTACCAACCCCGGACG 232
QY 81 CysGlyAlaGly 84
Db 231 TGTGGCCAGGA 220

RESULT 5

US-09-833-263-853/c
; Sequence 853, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-853

Alignment Scores:
Pred. No.: 1.16e-55 Length: 626
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-7 (1-84) x US-09-833-263-853 (1-626)

QY 1 AsnCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 471 AATTGTGCCCTTGAGGAGCTGGCTCTGTTGGGCTCTGGGGGACCACTCCATGCC 412
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleIleGluLeu 40
Db 411 CAGCTCGAGAGCTCACTTCCAGCTCTTCTGTAGAGCTCAGTTGGATCATTGAGCTGTG 352
QY 41 GluLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 351 GAGAGGATGGCATGGCTTCCAGGAGGCTTAGACCCAGGCGCTTTGACCGGGCAGC 292
QY 61 ProPheAlaGlnGluLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80
Db 291 CCCTTTGCCAGAGCTGCTGGACGAGCTCAGCGCTCAGCAAGCCAGCCCTTACCAACCCCGGACG 232
QY 81 CysGlyAlaGly 84
Db 231 TGTGGCCAGGA 220

RESULT 6

US-10-025-380-853/c
; Sequence 853, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0

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Title: US-08-978-217-6

Perfect score: 252
Sequence: 1 AATTGGCCCTTGAGGAGCT.....CCGGCAGCTGTGGCCAGGA 252

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:

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- 2: /cgn2_5/ptodata/1/pubpna/PCT_NEW_PUB.seq:
- 3: /cgn2_5/ptodata/1/pubpna/US06_NEW_PUB.seq:
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- 5: /cgn2_5/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:
- 6: /cgn2_5/ptodata/1/pubpna/US08_NEW_PUB.seq:
- 7: /cgn2_5/ptodata/1/pubpna/US08_PUBCOMB.seq:
- 8: /cgn2_5/ptodata/1/pubpna/US09_PUBCOMB.seq:
- 9: /cgn2_5/ptodata/1/pubpna/US09_PUBCOMB.seq:
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- 11: /cgn2_5/ptodata/1/pubpna/US09_PUBCOMB.seq:
- 12: /cgn2_5/ptodata/1/pubpna/US09_NEW_PUB.seq:
- 13: /cgn2_5/ptodata/1/pubpna/US09_NEW_PUB.seq:
- 14: /cgn2_5/ptodata/1/pubpna/US10_PUBCOMB.seq:
- 15: /cgn2_5/ptodata/1/pubpna/US10_PUBCOMB.seq:
- 16: /cgn2_5/ptodata/1/pubpna/US10_NEW_PUB.seq:
- 17: /cgn2_5/ptodata/1/pubpna/US60_NEW_PUB.seq:
- 18: /cgn2_5/ptodata/1/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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C 2	252	100.0	563	10	US-09-833-263-944
C 3	252	100.0	563	14	US-10-025-380-944
C 4	252	100.0	626	9	US-09-922-217-853
C 5	252	100.0	626	10	US-09-833-263-853
C 6	252	100.0	626	14	US-10-025-380-853
C 7	252	100.0	1907	15	US-10-097-340-74
C 8	252	100.0	1915	10	US-09-964-824A-101
C 9	252	100.0	1915	10	US-09-964-824A-563
C 10	252	100.0	1915	10	US-09-880-107-3420
C 11	252	100.0	1915	10	US-09-967-768A-192
C 12	252	100.0	1917	9	US-09-922-217-1105
C 13	252	100.0	1917	14	US-10-025-380-1105
C 14	252	100.0	1956	12	US-10-264-049-756
C 15	252	100.0	1996	9	US-09-925-301-207

Sequence 64, Appl	12	2269	100.0	252	100.0	10	US-10-131-410-64
Sequence 4818, Ap	10	355	98.8	249	98.8	17	US-09-867-701-4818
Sequence 1740, Ap	10	174	69.0	174	69.0	18	US-09-998-598-1740
Sequence 2216, Ap	10	437	25.0	63	25.0	19	US-09-998-598-2216
Sequence 356, App	13	14889	16.0	40.4	16.0	20	US-10-101-510-356
Sequence 280565,	12	14896	16.0	40.4	16.0	21	US-10-159-563-206
Sequence 280565,	13	532	38.8	38.8	15.4	22	US-10-027-632-280565
Sequence 11328, A	14	534	38.8	38.8	15.4	23	US-10-027-632-280565
Sequence 25041, A	13	1011	38.8	38.8	15.4	24	US-10-029-386-11328
Sequence 3356, Ap	13	5173	38.8	38.8	15.4	25	US-10-029-386-25041
Sequence 159, App	15	5173	38.8	38.8	15.4	26	US-09-880-107-3356
Sequence 280564,	13	532	38.8	38.8	15.4	27	US-10-171-581-159
Sequence 280564,	14	532	38.8	38.8	15.4	28	US-10-027-632-280564
Sequence 37726, A	12	1413	37.2	37.2	14.8	29	US-10-027-632-37726
Sequence 159559,	13	560	36.4	36.4	14.4	30	US-10-027-632-159559
Sequence 159559,	14	560	36.4	36.4	14.4	31	US-10-027-632-159559
Sequence 233, App	13	1539	36.2	36.2	14.4	32	US-10-259-165-233
Sequence 4804, Ap	9	275	35.8	35.8	14.2	33	US-09-923-876-4804
Sequence 269, App	12	275	35.8	35.8	14.2	34	US-09-923-876-4804
Sequence 55, Appl	10	13500	35.2	35.2	14.0	35	US-09-962-436-269
Sequence 1132, Ap	10	13500	35.2	35.2	14.0	36	US-09-954-456-1132
Sequence 1801, Ap	10	13500	35.2	35.2	14.0	37	US-09-954-456-1801
Sequence 2265, Ap	10	13500	35.2	35.2	14.0	38	US-09-954-456-1801
Sequence 145, App	10	13500	35.2	35.2	14.0	39	US-09-880-107-2265
Sequence 363, App	10	13500	35.2	35.2	14.0	40	US-09-954-531-145
Sequence 4, Appl	10	2161	35	35	13.9	41	US-09-954-531-363
Sequence 3220, Ap	10	19616	35	35	13.9	42	US-09-810-808-4
Sequence 3220, Ap	12	19616	35	35	13.9	43	US-09-764-877-3220
Sequence 3220, Ap	12	19616	35	35	13.9	44	US-10-242-515-3220
Sequence 3220, Ap	12	19616	35	35	13.9	45	US-10-242-515-3220

ALIGNMENTS

RESULT 1

US-09-922-217-944/c
; Sequence 944, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secretist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stoik, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-944

Query Match 100.0%; Score 252; DB 9; Length 563;
Best Local Similarity 100.0%; Pred. No. 2.1e-64;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 AATTGGCCCTTGAGGAGCTGTGGCTCTTTGGGCTCTGGGGACCAACTTCATGCC 60
Db 472 AATTGGCCCTTGAGGAGCTGTGGCTCTTTGGGCTCTGGGGACCAACTTCATGCC 413

61	QY	CAGCTGCGAGACCTCACTTCAGCTCTTCTGATGAGCTCAGTTGGATCAATTGAGCTGCTG	120
412	DB	CAGCTGCGAGACCTCACATCCAGCTCTTCTGATGAGCTCAGTTGGATCAATTGAGCTGCTG	353
121	QY	GAGAGGATGSCNTGGCCCTTCCAGAGGCCCTAGACCCAGGGGCCCTTGACACAGGGCAGC	180
352	DB	GAGAAGGATGGCATGGCCCTTCCAGAGGCCCTAGACCCAGGGGCCCTTGACAGGGCAGC	293
181	QY	CCCTTTTGCCAGGAGCTGCTGGACGAGCGTTCAGCAAGCCAGCGCCCTACACCCCGGCAGC	240
292	DB	CCCTTTTGCCAGGAGCTGCTGGACGAGCGTTCAGCAAGCCAGCGCCCTACACCCCGGCAGC	233
241	QY	TGTGCGCGAGGA	252
232	DB	TGTGCGCGAGGA	221

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RESULT 2
US-09-833-263-944/c
; Sequence 944, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-944

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RESULT 3
US-10-025-380-944/c
; Sequence 944, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Davin R.

```

; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: King, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skelky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-944

Query Match      100.0%; Score 252; DB 14; Length 563
Best Local Similarity 100.0%; Pred. No. 2.1e-64;
Matches 252; Conservative 0; Mismatches 0; Indels

Qy      1  AATTGTGCCCTTGAGGAGCTGGGTCTGTGTTTGGGCCCTCTGGGGGACCAAA
Db      472  AATTGTGCCCTTGAGGAGCTGGGTCTGTGTTTGGGCCCTCTGGGGGACCAAA

Qy      61  CAGCTCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTT
Db      412  CAGCTCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTT

Qy      121  GAGAAGGATGGCATGCGCCTTCCAGGAGGCCCTAGACCCAGGGGCCCTTTGAC
Db      352  GAGAAGGATGGCATGCGCCTTCCAGGAGGCCCTAGACCCAGGGGCCCTTTGAC

Qy      181  CCCTTTGCCAGGAGCTGTGGACGACGCTGACGACGACGACGCCCTTACCA
Db      292  CCCTTTGCCAGGAGCTGTGGACGACGCTGACGACGACGACGCCCTTACCA

Qy      241  TGTGGGCGCAGGA 252
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RESULT 4
US-09-922-217-853/c
Sequence 853, Application US/09922217
Patent No. US20020076414A1
GENERAL INFORMATION:
APPLICANT: Xu, JiangChun
APPLICANT: Lodes, Michael J.
APPLICANT: Secret, Heather
APPLICANT: Benson, Darin E.
APPLICANT: Meagher, Madeline Joy
APPLICANT: Stolk, John A.
APPLICANT: Wang, Tongtong
APPLICANT: Jiang, Yuqiu
APPLICANT: Smith, Carole Lynn
APPLICANT: King, Gordon E.
APPLICANT: Wang, Aijun
APPLICANT: Clapper, Jonathan D.
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
FILE REFERENCE: 21021.471C13
CURRENT APPLICATION NUMBER: US/09/922,217
CURRENT FILING DATE: 2001-08-03
NUMBER OF SEQ ID NOS: 1124


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; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1105

Query Match
Best Local Similarity 100.0%; Score 252; DB 9; Length 1917;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTGCGCCCTTGAGGAGCTCGTCTGCTCTTTGGGGCTCTGGGGGACCAACTCCATGCC 60
Db 431 AATTGTGCGCCCTTGAGGAGCTCGTCTGCTCTTTGGGGCTCTGGGGGACCAACTCCATGCC 490
QY 61 CAGCTGCGAGACCTCAGCTTCAGCTCTTCATGAGCTCAGTTGGATCATTTGAGCTGCTG 120
Db 491 CAGCTGCGAGACCTCAGCTTCAGCTCTTCATGAGCTCAGTTGGATCATTTGAGCTGCTG 550
QY 121 GAGAAGGATGGCATGGCCCTCCAGAGGCCCTAGACCCAGGGCCCTTTGACCAAGGGCAGC 180
Db 551 GAGAAGGATGGCATGGCCCTCCAGAGGCCCTAGACCCAGGGCCCTTTGACCAAGGGCAGC 610
QY 181 CCCTTTGCCAGAGAGCTGCTGAGCAGCGTCAAGCAAGCCAGCCCTTACCAACCCCGGCGAGC 240
Db 611 CCCTTTGCCAGAGAGCTGCTGAGCAGCGTCAAGCAAGCCAGCCCTTACCAACCCCGGCGAGC 670
QY 241 TGTGGCGCAGGA 252
Db 671 TGTGGCGCAGGA 682

RESULT 14
US-10-264-049-756
; Sequence 756, Application US/10264049
; Publication No. US2004000579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133PI
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCI/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 756
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-264-049-756

Query Match
Best Local Similarity 100.0%; Score 252; DB 12; Length 1956;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTGCGCCCTTGAGGAGCTCGTCTGCTCTTTGGGGCTCTGGGGGACCAACTCCATGCC 60
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QY 61 CAGCTGCGAGACCTCAGCTTCAGCTCTTCATGAGCTCAGTTGGATCATTTGAGCTGCTG 120
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Db 590 GAGAAGGATGGCATGGCCCTCCAGAGGCCCTAGACCCAGGGCCCTTTGACCAAGGGCAGC 649
QY 181 CCCTTTGCCAGAGAGCTGCTGAGCAGCGTCAAGCAAGCCAGCCCTTACCAACCCCGGCGAGC 240
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QY 241 TGTGGCGCAGGA 252
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RESULT 15
US-09-925-301-207
; Sequence 207, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
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; PRIOR APPLICATION NUMBER: PCT/US00/05882
 ; PRIOR FILING DATE: 2000-03-08
 ; PRIOR APPLICATION NUMBER: 60/124,270
 ; PRIOR FILING DATE: 1999-03-12
 ; NUMBER OF SEQ ID NOS: 1694
 ; SOFTWARE: PatentIn ver. 2.0
 ; SEQ ID NO 207
 ; LENGTH: 1396
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-925-301-207

Query Match 100.0%; Score 252; DB 9; Length 1396;
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 Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	61	CAGTGGGAGACCTCACTTCCAGCTCTTGTATGAGCTCAGTTGGATCATTTAGTGTCTG	120
Db	510	CAGTGGGAGACCTCACTTCCAGCTCTTGTATGAGCTCAGTTGGATCATTTAGTGTCTG	569
Qy	121	GAGAAGGATGCGATGGCTTCCAGGAGGCTTAGACCCAGGCGCTTTGACCAAGGCGAGC	180
Db	570	GAGAAGGATGCGATGGCTTCCAGGAGGCTTAGACCCAGGCGCTTTGACCAAGGCGAGC	629
Qy	181	CCCTTTCCAGGAGCTGTGGAGCGAGCGGTTCAGCAAGCCAGCCCTTACCCCGGCGAGC	240
Db	630	CCCTTTCCAGGAGCTGTGGAGCGAGCGGTTCAGCAAGCCAGCCCTTACCCCGGCGAGC	689
Qy	241	TGTGGCGCAGGA	252
Db	690	TGTGGCGCAGGA	701

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 Job time : 89.8409 secs

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 12, 2004, 21:34:51 ; Search time 585.395 Seconds
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Title: US-08-978-217-2

Perfect score: 1980

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Fgapop 6.0 , Fgapext 7.0	
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Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying Chosen parameters: 4899406

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Database : Published Applications NA:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match Length	ID	Description

1	1980	100.0	1907	15	US-10-097-340-74	Sequence 74, Appl
2	1980	100.0	1915	10	US-09-964-824A-101	Sequence 101, App
3	1980	100.0	1915	10	US-09-964-824A-563	Sequence 563, App
4	1980	100.0	1915	10	US-09-880-107-3420	Sequence 3420, Ap
5	1980	100.0	1915	10	US-09-967-768A-192	Sequence 192, App
6	1980	100.0	1917	9	US-09-922-217-1105	Sequence 1105, Ap
7	1980	100.0	1917	14	US-10-025-380-1105	Sequence 1105, Ap
8	1980	100.0	1956	12	US-10-264-049-756	Sequence 756, App
9	1980	100.0	1996	9	US-09-925-301-207	Sequence 301, App
10	1654	83.5	2269	12	US-10-131-410-64	Sequence 64, Appl
c 11	1127	56.9	626	9	US-09-922-217-853	Sequence 853, App
c 12	1127	56.9	626	10	US-09-833-263-853	Sequence 853, App
c 13	1127	56.9	626	14	US-10-025-380-853	Sequence 853, App
c 14	1011	51.1	563	9	US-09-922-217-944	Sequence 944, App
c 15	1011	51.1	563	10	US-09-833-263-944	Sequence 944, App
c 16	1011	51.1	563	14	US-10-025-380-944	Sequence 944, App
c 17	903	45.6	502	9	US-09-604-287A-282	Sequence 282, App
c 18	903	45.6	502	10	US-09-339-338-282	Sequence 282, App
c 19	903	45.6	502	11	US-09-551-621-282	Sequence 282, App
c 20	903	45.6	502	13	US-10-124-805-282	Sequence 282, App
c 21	903	45.6	502	14	US-10-076-622-282	Sequence 282, App
c 22	903	45.6	502	15	US-10-076-622-282	Sequence 282, App
c 23	822	41.5	499	10	US-09-998-598-2290	Sequence 2290, Ap
c 24	822	41.5	499	10	US-09-998-598-2216	Sequence 2216, Ap
c 25	618	31.2	355	10	US-09-867-701-4818	Sequence 4818, Ap
c 26	558	28.2	1429	10	US-09-764-864-320	Sequence 320, App
c 27	556.5	28.1	1426	9	US-09-925-297-309	Sequence 309, App
c 28	556.5	28.1	1426	15	US-10-106-698-935	Sequence 935, App
c 29	554.5	28.0	1435	12	US-10-292-798-1601	Sequence 1601, Ap
c 30	554.5	28.0	1435	13	US-10-017-161-1953	Sequence 1953, Ap
c 31	519.5	26.2	852	9	US-09-759-143-44	Sequence 44, Appl
c 32	519.5	26.2	852	9	US-09-780-669-44	Sequence 44, Appl
c 33	519.5	26.2	852	9	US-09-030-606-44	Sequence 44, Appl
c 34	519.5	26.2	852	9	US-09-822-827-44	Sequence 44, Appl
c 35	519.5	26.2	852	9	US-09-115-453-44	Sequence 44, Appl
c 36	519.5	26.2	852	10	US-09-232-880-44	Sequence 44, Appl
c 37	519.5	26.2	852	10	US-09-895-793-44	Sequence 44, Appl
c 38	519.5	26.2	852	10	US-09-895-814-44	Sequence 44, Appl
c 39	519.5	26.2	852	13	US-10-144-678A-44	Sequence 44, Appl
c 40	519.5	26.2	852	13	US-10-294-023-44	Sequence 44, Appl
c 41	519.5	26.2	852	14	US-10-012-896-44	Sequence 44, Appl
c 42	519.5	26.2	852	15	US-10-010-940-44	Sequence 44, Appl
c 43	442	22.3	5045	10	US-09-974-298-12	Sequence 12, Appl
c 44	435.5	22.0	275	15	US-10-060-036-3261	Sequence 3261, Ap
c 45	435	22.0	440	10	US-09-960-352-11873	Sequence 11873, A

ALIGNMENTS

RESULT 1

US-10-097-340-74
; Sequence 74, Application US/10097340
; Publication No. US20030087250A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVAPURU
; APPLICANT: Sebastian HOERSCH
; APPLICANT: Shubhangi KAMATKAR
; APPLICANT: Steve G KOVATS
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Ami SEN
; APPLICANT: Peter VEIBY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. BAST, Jr.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumei ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: MEI-030

; CURRENT APPLICATION NUMBER: US/10/097,340
 ; CURRENT FILING DATE: 2002-03-14
 ; PRIOR APPLICATION NUMBER: 60/276,025
 ; PRIOR FILING DATE: 2001-03-14
 ; PRIOR APPLICATION NUMBER: 60/325,149
 ; PRIOR FILING DATE: 2001-09-26
 ; PRIOR APPLICATION NUMBER: 60/276,026
 ; PRIOR FILING DATE: 2001-03-14
 ; PRIOR APPLICATION NUMBER: 60/324,967
 ; PRIOR FILING DATE: 2001/09/26
 ; PRIOR APPLICATION NUMBER: 60/311,732
 ; PRIOR FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: 60/325,102
 ; PRIOR FILING DATE: 2001-09-26
 ; PRIOR APPLICATION NUMBER: 60/323,580
 ; PRIOR FILING DATE: 2001-09-19
 ; NUMBER OF SEQ ID NOS: 363
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 74
 ; LENGTH: 1907
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-097-340-74

Alignment Scores:
 Pred. No.: 8,64e-212 Length: 1907
 Score: 1980.00 Matches: 371
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 15 Gaps: 0

US-08-978-217-2 (1-371) x US-10-097-340-74 (1-1907)

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 QY 21 SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspLeu 40
 DB 156 TCGGAGGACTCCACCTGGCTCTGTTCCTCCCTGTGCTGACCTTTGGGGCGGATGACTTG 215
 QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu 60
 DB 216 GTACTGACCTCAGCAACCCAGATGTCATTGGAGGGTACAGAGAGGCCAGCTGGTTG 275
 QY 61 GlyGluGlnProGlnPheTrpSerIleThrGlnValLeuAspTrpIleSerTyrGlnVal 80
 DB 276 GGGGAACACCCCACTTCTGGTGAAGACGCGAGTCTTGGAGTGGATCAGCTACCAAGTG 335
 QY 81 GluLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100
 DB 336 GAGAGAACAACTACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 395
 QY 101 ThrLeuCysAsnCysAlaLeuGluGlnLeuValPheGlyProLeuGlyAspGln 120
 DB 396 ACCCTCTGCAATGTGCTTGGAGGAGTGGCTGTGCTTGGAGGAGTGGCTGTGCTG 455
 QY 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerSerSerSerSerSerSer 140
 DB 456 CTCCATGCCACCTGGGAGACCTTCTCCAGCTCTTCTGATGAGCTCAGTGGATCAT 515
 QY 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAsp 160
 DB 516 GAGCTGCTGGAGAGGATGGATGGCTTCCAGGAGGCGCTAGACCCAGGCGCCCTTTGAC 575
 QY 161 GlnGlySerProPheAlaGlnLeuLeuAspGlyGlnGlnAlaSerProTyrHis 180
 DB 576 CAGGGCAGGCCCTTTGGCCAGGAGTGTGTGGACGCTGACCAAGCCAGGCCCTTACAC 635
 QY 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerSerSerSerSerSerSer 200
 DB 636 CCGGCGAGCTGTGGCGCAGGAGCCCTCCCTCCCTGGCAGCTCTGACGCTCTCCACCGCAGG 695

QY 201 ThrGlyValaSerArgSerSerHisSerSerSerSerSerSerSerSerSerSerSer 220
 DB 696 ACTGGTGTCTTCGAGAGCTCCACCTCTCCAGACTCCGCTGGAGTGGAGTGGAGTGG 755
 QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysLysLys 240
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 QY 241 LysHisGlyLysArgLysArgLysArgProArgLysLeuSerLysGluTyrTrpAspCys 260
 DB 816 AAGCAGGGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 875
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 QY 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371
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RESULT 2

US-09-964-824A-101
 ; Sequence 101, Application US/09964824A
 ; Patent No. US20020102531A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Horrigan, Stephen
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signal
 ; TITLE OF INVENTION: Sets
 ; FILE REFERENCE: 689290-73
 ; CURRENT APPLICATION NUMBER: US/09/964,824A
 ; CURRENT FILING DATE: 2001-09-27
 ; PRIOR APPLICATION NUMBER: US/60/236,033
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US/60/236,032
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US/60/236,028
 ; PRIOR FILING DATE: 2000-09-28
 ; NUMBER OF SEQ ID NOS: 583
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 101
 ; LENGTH: 1915
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-964-824A-101

Alignment Scores:
 Pred. No.: 8,69e-212 Length: 1915
 Score: 1980.00 Matches: 371
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 10 Gaps: 0

US-08-978-217-2 (1-371) x US-09-964-824A-101 (1-1915)

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Db 120 ATGGCTCAACCTGTGAGATTAGCAACATTTTACCACTACTTCAGTGGGATGACAGC 179
Qy 21 SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspAspLeu 40
Db 180 TCGAGGAGTCCACCTCGCTCTGTTCCTCCCTCTGTCACCTTTGGGGCGGATGACTTG 239
Qy 41 ValLeuThrLeuSerAspProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu 60
Db 240 GTACTGACCTTGAGCAACCCAGATGTCATTTGAGGGGTACAGAGAGCCGACGTGGTTG 299
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Qy 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140
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Qy 201 ThrGlyAlaSerArgSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp 220
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Qy 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysGlyAspPro 240
Db 780 CCCACTGATGGCAAGCTCTTCCCGAGCGATGTTTCTGTGACTGCAAGAGGGGATCCC 839
Qy 241 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTrpTrpAspCys 260
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Qy 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371

Db 1200 TGGAGAGGAGGAAGAGGTTCCTCCAGAGTCGGAAC 1232
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US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563

Alignment Scores:
Pred. No.: 8,69e-212 Length: 1915
Score: 1980.00 Matches: 371
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-2 (1-371) x US-09-964-824A-563 (1-1915)

Qy 1 MetaAlaAlaThrCysGluLysSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20
Db 120 ATGGCTGCAACCTGTGAGATTAGCAACATTTTACCACTACTTCAGTGGGATGACAGC 179
Qy 21 SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspAspLeu 40
Db 180 TCGAGGAGTCCACCTCGCTCTGTTCCTCCCTCTGTCACCTTTGGGGCGGATGACTTG 239
Qy 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu 60
Db 240 GTACTGACCTTGAGCAACCCAGATGTCATTTGAGGGGTACAGAGAGCCGACGTGGTTG 299
Qy 61 GlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpIleSerTrpGlnVal 80
Db 300 GGGGAACAGCCCGACCTTCTGTCGAAGACGAGCTTCTGGACTGGATCAGTACCAAGTG 359
Qy 81 GluLysAsnLysTrpAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100
Db 360 GAGAAAGAACAGTACGACGAGCCCATTTGACTTCTCAGATGTGACATGATGGCGCC 419
Qy 101 ThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120
Db 420 ACCCTCTGCAATTTGGCTTGGAGAGCTGCTGCTGCTGCTTGGGCTCTGGGGGACCAA 479
Qy 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140
Db 480 CTCCATGCCAGCTGCGAGACCTCACTTCAGTCTCTCTGATGAGCTCAGTTGGATCAAT 539
Qy 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160
Db 540 GAGCTGCTGGAGAGATGGCATGGCTTCCAGAGGCCCTAGACCCAGGGCCCTTTGAC 599
Qy 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyHis 180
Db 600 CAGGGCAGCCCTTTGGCCAGAGCTGCTGGACGCGTTCAGCAGCGTTCAGCAGCCCTTACCAC 659

US-08-922-217-1105

Alignment Scores:

Pred. No.:	8,71e-212	Length:	1917
Score:	1980.00	Matches:	371
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	9	Gaps:	0

US-08-978-217-2 (1-371) x US-09-922-217-1105 (1-1917)

QY	1	MetAlaAlaThrCysGluLeuSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer	20
DB	122	ATGGCTGCAACCTGTGAGTATAGCAACATTTTAGCAACTACTTTCAGTGGGATGATACAGC	181
QY	21	SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspLeu	40
DB	182	TCGAGAGACTCACCTGGCTCTGTTCCCTCTGCTCCACCTTTGGGGCCGAGTACTTG	241
QY	41	ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu	60
DB	242	GTACTGACCTGTAGCAACCCACAGATGTCTATGGAGGGTACAGAGAAGGCCAGCTGGTTG	301
QY	61	GlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpIleSerTyrGlnVal	80
DB	302	GGGGAACAGCCCCAGTTCTGGTCCAGACCGCAGGTTCTGGACTGGATCAGCTACCAAGTG	361
QY	81	GluLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla	100
DB	362	GAGAGAACAGTACGACGCGCAGCCGCTTTCACCTTCTCAGATGTGACATGGGCGCC	421
QY	101	ThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln	120
DB	422	ACCCTCTGCAATTGCTGCTTGGAGAGCTGGCTCTGCTCTTGGGGCTCTGGGGGACCA	481
QY	121	LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle	140
DB	482	CTCATGCCAGCTCGAGAGCTCCTCCTGCTCTTCTGATGAGCTCAGTTGGATCATT	541
QY	141	GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp	160
DB	542	GAGCTGCTGGAGAGAGTGGCTGGCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC	601
QY	161	GlnGlySerProPheAlaGlnGluLeuLeuAspGlyGlnGlnAlaSerProTyrHis	180
DB	602	CAGGCGACCCCTTTGCCAGAGCTGCTGGACCGGTGACCAAGCCAGCCCTCTACCAC	661
QY	181	ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly	200
DB	662	CCCGGAGCTGTGGCGCAGGAGCCCTCCCTGGCAGCTCTGACGTCTCCACCGCAGGG	721
QY	201	ThrGlyAlaSerArgSerSerHisSerSerAspSerGlySerAspValAspLeuAsp	220
DB	722	ACTGGTGTCTTCGAGAGCTCCACTCTCTCAGACTCCGGTGGAGTGCAGTGGACCTGGAT	781
QY	221	ProThrAspGlyLysLeuPhePheSerAspGlyPheArgAspCysLysLysGlyAspPro	240
DB	782	CCCAGTGTGCAAGACTCTTCCCGAGGATGGTTTCTGACTGCAAGAGGGGGATCCC	841
QY	241	LysHisGlyLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys	260
DB	842	AAGCACGGGAACGGAACGAGCGCGCCGCGGAAAGCTGACCAAGAGTACTGGAGCTGT	901
QY	261	LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg	280
DB	902	CTCAGGGCAAGAGAGCAGACGCGCCAGAGGACCCACCTCTGGGGAGTTCATCCGG	961
QY	281	AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu	300
DB	962	GACATCTCTCATCCCGGAGCTCAACGAGGGCTCTCATGAAGTGGGAGATCGGCATGAA	1021
QY	301	GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys	320

DB	1022	GGCGTCTTCAAGTTCCTGGCTCCGAGCTGTGGCCCACTATGGGCGCAAGAAAAG	1081
QY	321	AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu	340
DB	1082	AACAGCAACATGACCTACGAGAAGTACGCGGCGCATGAGGTACTACTACAAACGGGAG	1141
QY	341	IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly	360
DB	1142	ATCTCTGGAACGGTGGATGGCGCGCACTGCTCTACAAAGTTTGGCAAAACTCAAGCGGC	1201
QY	361	TrpLysGluGluGluValLeuGlnSerArgAsn	371
DB	1202	TGGAAGGAGGAGGAGGTCTCCAGAGTGGGAAC	1234

RESULT 7

US-10-025-380-1105
Sequence 1105, Application US/10025380
Publication No. US20020182191A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Lodes, Michael J.
APPLICANT: Secrist, Heather
APPLICANT: Benson, Darin R.
APPLICANT: Meagher, Madeleine Joy
APPLICANT: Stolk, John A.
APPLICANT: Wang, Tongtong
APPLICANT: Jiang, Yugu
APPLICANT: Smith, Carole L.
APPLICANT: King, Gordon E.
APPLICANT: Wang, Aijun
APPLICANT: Clapper, Jonathan D.
APPLICANT: Skelky, Yasir A. W.
APPLICANT: Fanger, Gary R.
APPLICANT: Vedwick Thomas S.
APPLICANT: Carter, Darrick
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
FILE REFERENCE: 210121.471C14
CURRENT APPLICATION NUMBER: US/10/025,380
CURRENT FILING DATE: 2001-12-19
NUMBER OF SEQ ID NOS: 1129
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1105
LENGTH: 1917
TYPE: DNA
ORGANISM: Homo sapiens
US-10-025-380-1105

Alignment Scores:			
Pred. No.:	8,71e-212	Length:	1917
Score:	1980.00	Matches:	371
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	14	Gaps:	0

US-08-978-217-2 (1-371) x US-10-025-380-1105 (1-1917)

QY	1	MetAlaAlaThrCysGluLeuSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer	20
DB	122	ATGGCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTTCAGTGGGATGATACAGC	181
QY	21	SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspLeu	40
DB	182	TCGAGAGACTCACCTGGCTCTGTTCCCTCTGCTCCACCTTTGGGGCCGAGTACTTG	241
QY	41	ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu	60
DB	242	GTACTGACCTGTAGCAACCCACAGATGTCTATGGAGGGTACAGAGAAGGCCAGCTGGTTG	301
QY	61	GlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpIleSerTyrGlnVal	80

QY	261	LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg	280
DB	941	CTCGAGGCAAGAGACAGACAGCGGCCAGAGGACCACCTGTGGAGATTATCCGG	1000
QY	281	AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu	300
DB	1001	GACATCTTCATCCACCCGGAGCTAACAGAGGCCTTATCAAGTGGGAGATCGGCATGAA	1060
QY	301	GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnIysLysIys	320
DB	1061	GGCGTCTTCAAGTTCCTTCGCTCGAGGCTGTGGCCCAACTATGGGGGCCAAAGAAAAG	1120
QY	321	AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu	340
DB	1121	AACACCAACATGACTACGAGAAGCTGAGCGGGCCATGAGTGACTACTACAAACGGGAG	1180
QY	341	IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyIysAsnSerSerGly	360
DB	1181	ATCTCGGAACGGGTGGATGGCGCGGACTCGTCTCAAGTTTGGCAAAAACATCAAGCGGC	1240
QY	361	TrpLysGluGluGluValLeuGlnSerArgAsn	371
DB	1241	TGCAGGAGGAGAGGTTCTCCAGAGTCGGAAC	1273

RESULT 9

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US-09-925-301-207
; Sequence 207, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIORITY APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIORITY APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 207
; LENGTH: 1996
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-301-207

```

Alignment Scores:		
Pred. No.:	9.21e-212	1996
Score:	1980.00	371
Percent Similarity:	100.00%	Conservative: 0
Best Local Similarity:	100.00%	Mismatches: 0
Query Match:	100.00%	Indels: 0
DB:	9	Gaps: 0

US-08-978-217-2 (1-371) x US-09-925-301-207 (1-1996)

Qy	1	MetAlaAlaThrCysGluIleSerAsnIlePheSerAsnTyrPheSerAlaMetfyrSer	20
Db	141	ATGGCTGCACCTGTGAGATTAGCAACATTTTATGCAACTACTTCAGTGGCATGTACAGC	200
Qy	21	SerGluAspSerThrIleuAlaSerValProAlaIaThrPheGlyAlaAspAspLeu	40
Db	201	TCGGAGGACTCCACCCTGGCTCTCTCCCTCTGTCACCTTTTGGGGCCGATGACTTG	260
Qy	41	ValIeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluIlyAlaIaSerTyrLeu	60
Db	261	GTACTGACCTGAGCAACCCCGATGTCATTGAGGGTACAGAGAAGGCCAGCTGGTTG	320
Qy	61	GlyGluGlnProGlnPheTyrSerIlyThrGlnValIleuAspTyrIleSerfyrGlnVal	80
Db	321	GGGGACACGCCCGAGTCTGGTCGAAGACGCAGGTCTTGAGCTGGATCAGCTACCAAGTG	380
Qy	81	GluIlyAsnGlnTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla	100

381	DB	GAGAGAACCAAGTACGACCAAGCGCCATTGACTTCTACGATGTACATGGATGCGGCC	440
101	QY	ThrLeuCysAsnCyAAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln	120
441	DB	ACCTCTGCAATTGTGCCCTTCAGGAGCTGCTGTGGTCTTTGGGCTCTGGGGGACCAA	500
121	QY	LeuHisAlaGlnIleuArgAspIleuThrSerSerSerSerSerSerSerSerSerTptIleLe	140
501	DB	CTCCATGCCAGCTCGAGACTCACTTCAGCTCTTCGTAGTGAGCTCAGTTGGATCAT	560
141	QY	GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp	160
561	DB	GAGCTGCTGGAGAAGGATGGCATGGCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC	620
161	QY	GlnGlySerProPheAlaGlnIleuLeuAspAspGlyGlnGlnAlaSerProTyrHis	180
621	DB	CAGGGCAGGCCCTTTGCCAGAGAGCTGTGGACGACGGTCCAGCAAGCCAGCCCTTACCAC	680
181	QY	ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly	200
681	DB	CCCGCAGCTGTGGCGCAGGAGCCCTCCCTCCYGGCAGCTCTGACGCTCTCCACCGCAGGG	740
201	QY	ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp	220
741	DB	ACTGGTGTCTTCGGAGCTCCCACTCCTCAGACTCCGGTGGAGTACGCTGGACCTGGAT	800
221	QY	ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro	240
801	DB	CCCACCTGATGGCAAGCTCTTCCCAGCGATGTTTTCGTGACTGCAGAAGGGGATCCC	860
241	QY	LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysLysGluTyrTrpAspCys	260
861	DB	AAGCACGGGAACGGGAACCGAGCGCGGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGT	920
261	QY	LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg	280
921	DB	CTTCGAGGGCAGAGAGCAGCAGCGGCCCCAGAGGCACCCACTGTGGAGTTTCATCCGG	980
281	QY	AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu	300
981	DB	GACATCCTCATCCACCGGAGCTCAACGAGGGCCCTCATGAAGTGGGAGAAATCGGCATGA	1040
301	QY	GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys	320
1041	DB	GGCGTCTTCAGTTCTCGCTTCCGAGGCTGTGGCCCACTATGGGGCCCAAGAANAAG	1100
321	QY	AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu	340
1101	DB	AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCCATGAGGTACTACTACAACCGGAG	1160
341	QY	IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly	360
1161	DB	ATCCTGGAAAGGGTGGATTGGCGGCGACTCGTCTCAAGTTTGGCAAAACTCAAGCGGC	1220
361	QY	TrpLysGluGluGluValLeuGlnSerArgAsn	371
1221	DB	TGGAAAGCAGAGAGGTTCTTCAGAGTCCGGAAC	1253

PGIII.T 10

RESULTS 10
US-10-131-410-64
; Sequence 64, Application US/10131410
; Publication No. US20030235915A1
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST
; TITLE OF INVENTION: TUMORS
; FILE REFERENCE: SCH-1763

; CURRENT APPLICATION NUMBER: US/10/131,410
 ; CURRENT FILING DATE: 2002-04-25
 ; PRIOR APPLICATION NUMBER: 09/646,673
 ; PRIOR FILING DATE: 2000-09-20
 ; PRIOR APPLICATION NUMBER: PCT/DE99/00908
 ; PRIOR FILING DATE: 1999-03-19
 ; NUMBER OF SEQ ID NOS: 202
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 64
 ; LENGTH: 2269
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-131-410-64

Alignment Scores:
 Pred. No.: 3,986-175 Length: 2269
 Score: 1654.00 Matches: 315
 Percent Similarity: 99.37% Conservative: 0
 Best Local Similarity: 99.37% Mismatches: 2
 Query Match: 83.54% Indels: 2
 DB: 12 Gaps: 0

US-08-978-217-2 (1-371) x US-10-131-410-64 (1-2269)

QY 55 GluLysAlaSerTrpLeuGlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAsp 74
 DB 15 GAGAGGCCAGCTGGTTGGGGAAACAGCCCAAGTTCTGTGCGAAGAG-CAGGTTCTGGAC 73
 QY 75 TrpLeuSerTrpGlnValGluLysAsnLysTrpAspAlaSerAlaLalleAspPheSerArg 94
 DB 74 TGGATCAGCTACCAAGTGGAGAGAACAGTACGACGCGAGCGCCATTGACTTCTCAGA 133
 QY 95 CysAspMetAspGlyAlaThrLeuGlnCysAsnGlnAlaLeuGluGluLeuValPhe 114
 DB 134 TGTGATGATGATGGCCCACTTCTCAATTTGTCCTTTGAGAGGCTGCTGTGCTCTTT 193
 QY 115 GlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSerAsp 134
 DB 194 GGGCTCTGGGGACCACTTCCATGCCCAGCTGCGAGAGCTCCTTCCAGCTCTTCTGAT 253
 QY 135 GluLeuSerTrpLeuLeuGluLeuGluLysAspGlyMetAlaPheGlnGluAlaLeu 154
 DB 254 GAGCTCAGTTGGATCATTAGCTGTGTGGAGAGAGTGGATGGCTTCCAGGAGGCCCTA 313
 QY 155 AspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuLeuAspGlyGln 174
 DB 314 GACCCAGGGCCCTTTGACAGGGCAGCCCTTTGCCCAGAGCTGTGAGACAGGCTCAG 373
 QY 175 GlnAlaSerProTrpHisProGlySerCysGlyAlaGlyValaProSerProGlySerSer 194
 DB 374 CAAGCCAGCCCTTACCACCCCGGACAGCTGTGGCGCAGAGAGCCCTTCCCTGGCAGCTCT 433
 QY 195 AspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGly 214
 DB 434 GAGCTCTCCACCCAGGACT-GGTGCTTCTCGAGGCTCCCTTCCAGCTCCAGCTCCGGTGA 492
 QY 215 SerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPheArgAsp 234
 DB 493 AGTGAAGTGACCTGATCCACTGATGCAAGCTCTTCCAGGAGTGTGTTTCTGATC 552
 QY 235 CysLysLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSer 254
 DB 553 TGCAAGAAGGGGGATCCCAAGCAGCGGAAACAGAGGCGCCGCGCCGCGGAAAGCTGAGC 612
 QY 255 LysGluTrpTrpAspCysLeuGluGluLysLysSerLysHisAlaProArgGlyThrHis 274
 DB 613 AAGAGTACTGGGACTGTCTCGAGGCAAGAGAGCAGCAGCGCCGCGAGGACCCAC 672
 QY 275 LeuTrpGluPheLeuArgAspLeuLeuHisProGluLeuAsnGluGluLeuMetLys 294
 DB 673 CTGTGGAGTTTATCCGGGACATCTCTCATCCCGGAGCTCAACGAGGGGCTCTATGAG 732
 QY 295 TrpGluAsnArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeu 314

DB 733 TGGGAGAATCGCATGAAGCGCTTCAAGTCTCGCTCCGAGGCTGTGGCCCACTA 792
 QY 315 TrpGlyGlnLysLysLysAsnSerAsnMetThrTrpGluLysLysSerArgAlaMetArg 334
 DB 793 TGGGGCCAAAAGAAAAGAACAGCAACATCCTACAGAAAGCTGAGCGCGGCATGAGG 852
 QY 335 TyrTrpTrpLysArgGluLeuLeuGluArgValAspGlyArgGluValTrpLysPhe 354
 DB 853 TACTACTACAAACGGGAGATCCTTGGACGGGTGATGGCCGGGACTCGTCTACAGTTT 912
 QY 355 GlyLysAsnSerSerGlyTrpLysGluGluGluValLeuGlnSerArgAsn 371
 DB 913 GGCAAAACCTCAAGCGCTGGAAGAGAGGTTCTCCAGAGTCGGAAC 963

RESULT 11

; Sequence 853, Application US/09922217
 ; Patent No. US20020076414A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Benson, Darin R.
 ; APPLICANT: Meagher, Madeleine Joy
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Wang, Tongtong
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Smith, Carole Lynn
 ; APPLICANT: King, Gordon E.
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Clapper, Jonathan D.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
 ; FILE REFERENCE: 210121.471C13
 ; CURRENT APPLICATION NUMBER: US/09/922,217
 ; CURRENT FILING DATE: 2001-08-03
 ; NUMBER OF SEQ ID NOS: 1124
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 853
 ; LENGTH: 626
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-922-217-853

Alignment Scores:
 Pred. No.: 8,4e-117 Length: 626
 Score: 1127.00 Matches: 208
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 56.92% Indels: 0
 DB: 9 Gaps: 0

US-08-978-217-2 (1-371) x US-09-922-217-853 (1-626)

QY 53 GlyThrGluLysAlaSerTrpLeuGlyGluGlnProGlnPheTrpSerLysThrGlnVal 72
 DB 624 GGTACAGAGAGGCCAGCTGGTTGGGGAAACAGCCCAAGTTCTGTGCGAAGAGCGAGTT 565
 QY 73 LeuAspTrpLeuSerTrpGlnValGluLysAsnLysTrpAspAlaSerAlaLalleAspPhe 92
 DB 564 CTGGACTGGATCAGTACCAAGTGGAGAGAAACAGTACGACGAGCGCCATTGACTTC 505
 QY 93 SerArgCysAspMetAspGlyAlaThrLeuCysAsnGlnAlaLeuGluGluLeuArgLeu 112
 DB 504 TCAGATGTACATGATGATGCGCCCTCTGCAATTTGTCCTTGGAGAGTGGCTGTG 445
 QY 113 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSer 132
 DB 444 GTCTTTGGGCTCTGGGGACCAACTCCATGCCCGACCTCGAGACCTCCTTCCAGCTCT 385
 QY 133 SerAspGluLeuSerTrpLeuLeuGluLeuGluLysAspGlyMetAlaPheGlnGlu 152

Db 384 TCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAGGATGCGATGCGCTTCCAGGAG 325
 Qy 153 AlaleuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspAsp 172
 Db 324 GCCTTAGACCCAGGGCCCTTTGACAGGGGAGGCCCTTTTCCAGAGAGCTGCTGGACGAC 265
 Qy 173 GlyGlnGlnAlaSerProTyHisProGlySerCysGlyAlaGlyAlaProSerProGly 192
 Db 264 GGTGAGCAAGCCAGCCCTTACCACCCCGGCGAGCTGTGGCGCAGGAGCCCTTCCCGCGC 205
 Qy 193 SerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerAspSer 212
 Db 204 AGCTCTGAGCTCTCCACCGCAGGAGCTGTGCTTCTCGGAGCTCCACCTCCCTCAGACTCC 145
 Qy 213 GlyGlySerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPhe 232
 Db 144 GGTGAGTGCAGCTGGACCTGGATCCACTGATGGCAAGCTCTTCCCGCAGGATGGTTTT 85
 Qy 233 ArgAspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLys 252
 Db 84 CGTGACTGCAAGAGGGGGATCCCAAGCACGGGAGCGGAACGAGCGCGCGCGCGGAAAG 25
 Qy 253 LeuSerLysGluTyrTrpAspCys 260
 Db 24 CTGAGCAAGAGTACTGGGACTGT 1

RESULT 12
 US-09-833-263-853/c
 ; Sequence 853, Application US/09833263
 ; Patent No. US20020110547A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Clapper, Jonathan D.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Meagher, Madeleine J.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
 ; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
 ; FILE REFERENCE: 210121.471C12
 ; CURRENT APPLICATION NUMBER: US/09/833,263
 ; CURRENT FILING DATE: 2001-04-10
 ; NUMBER OF SEQ ID NOS: 1093
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 853
 ; LENGTH: 626
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-09-833-263-853

Alignment Scores:
 Pred. No.: 8.4e-117 Length: 626
 Score: 1127.00 Matches: 208
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 56.92% Indels: 0
 DB: 10 Gaps: 0
 US-08-978-217-2 (1-371) x US-09-833-263-853 (1-626)
 Qy 53 GlyThrGluLysAlaSerTrpLeuGlyGluGlnProGlnPheTrpSerLysThrGlnVal 72
 Db 624 GGTACAGAGAGGGCCAGCTGTGTGGGGAAACAGCCCGGAGTCTGTGGTGAAGACGAGGTT 565
 Qy 73 LeuAspTrpIleSerTrpGlnValGluLysAsnLysTyAspAlaSerAlaIleAspPhe 92
 Db 564 CTGGACTGATCAGCTACCAAGTGGAGAGAACAGTACGACGAGCGGCGCATGACTTC 505
 Qy 93 SerArgCysAspMetAspGlyAlaThrLeuGluCysAsnGlyAlaLeuGluLeuArgLys 112
 Db 504 TCACGATGTCATGATGGGCGCCACCTCTGCAATTTGTGCTTGGAGAGCTCGGCTG 445
 Qy 113 ValPheGlyProLeuGluAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSer 132
 Db 444 GTCTTTGGGCTCTGTGGGGAGGACCACTCCATGCCCCAGCTGGAGACCTCACTTCCAGCTCT 385

Qy 133 SerAspGluLeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetAlaPheGlnGlu 152
 Db 384 TCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAGGATGCGATGCGCTTCCAGGAG 325
 Qy 153 AlaleuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspAsp 172
 Db 324 GCCTTAGACCCAGGGCCCTTTGACAGGGGAGGCCCTTTTCCAGAGAGCTGCTGGACGAC 265
 Qy 173 GlyGlnGlnAlaSerProTyHisProGlySerCysGlyAlaGlyAlaProSerProGly 192
 Db 264 GGTGAGCAAGCCAGCCCTTACCACCCCGGCGAGCTGTGGCGCAGGAGCCCTTCCCGCGC 205
 Qy 193 SerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerAspSer 212
 Db 204 AGCTCTGAGCTCTCCACCGCAGGAGCTGTGCTTCTCGGAGCTCCACCTCCCTCAGACTCC 145
 Qy 213 GlyGlySerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPhe 232
 Db 144 GGTGAGTGCAGCTGGACCTGGATCCACTGATGGCAAGCTCTTCCCGCAGGATGGTTTT 85
 Qy 233 ArgAspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLys 252
 Db 84 CGTGACTGCAAGAGGGGGATCCCAAGCACGGGAGCGGAACGAGCGCGCGCGGAAAG 25
 Qy 253 LeuSerLysGluTyrTrpAspCys 260
 Db 24 CTGAGCAAGAGTACTGGGACTGT 1

RESULT 13
 US-10-025-380-853/c
 ; Sequence 853, Application US/10025380
 ; Publication No. US20020182191A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Secrist, Heather
 ; APPLICANT: Benson, Darin R.
 ; APPLICANT: Meagher, Madeleine Joy
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Wang, Tongtong
 ; APPLICANT: Jiang, Yudi
 ; APPLICANT: Smith, Carole L.
 ; APPLICANT: King, Gordon E.
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Clapper, Jonathan D.
 ; APPLICANT: Skeiky, Yasir A. W.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Vedwick Thomas S.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
 ; FILE REFERENCE: 210121.471C14
 ; CURRENT APPLICATION NUMBER: US/10/025,380
 ; CURRENT FILING DATE: 2001-12-19
 ; NUMBER OF SEQ ID NOS: 1129
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 853
 ; LENGTH: 626
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-025-380-853
 Alignment Scores:
 Pred. No.: 8.4e-117 Length: 626
 Score: 1127.00 Matches: 208
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 56.92% Indels: 0
 DB: 14 Gaps: 0
 US-08-978-217-2 (1-371) x US-10-025-380-853 (1-626)

QY 53 GlyThrGluLeuAlaSerTrpLeuGluGlnProGlnPheTrpSerLysThrGlnVal 72
 Db 624 GGTACAGAGAGAGCCAGCTGGTTGGGGAAACAGCCCAAGTCTGTGTCGAGAGCGAGGTT 565
 QY 73 LeuAspTrpIleSerTrpGlnValGluLysAsnLysTyrAspAlaSerAlaIleAspPhe 92
 Db 564 CTGGAGTGGATCAGCTACCAAGTGGAGAGAAACAAGTACGACGCAAGCGCCATGACTTC 505
 QY 93 SerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeu 112
 Db 504 TCACGATGTGACATGATGGCCACCTCTGCAATTGTGCTTGGAGAGCTGGCTGTG 445
 QY 113 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSer 132
 Db 444 GTCTTTGGCCCTCTGGGGACCAACTCCATGCCAGCTGGAGAGCTTCACTTCCAGCTCT 385
 QY 133 SerAspGluLeuSerTrpIleLeuGluLeuGluLysAspGlyMetAlaPheGlnGlu 152
 Db 384 TCTGATGAGCTCAGTTGGATCATTGAGCTGTGGAGAGGATGGATGGCTTCCAGGAG 325
 QY 153 AlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuLeuAspAsp 172
 Db 324 GCCCTAGACCCAGGCGCCCTTTGACAGGCGAGCCCTTTGCCAGAGAGCTGCTGAGCAG 265
 QY 173 GlyGlnGlnAlaSerProTrpHisProGlySerCysGlyAlaGlyAlaProSerProGly 192
 Db 264 GGTGAGCAAGCAGGCGCCCTTACCCAGGCGAGCTGTGGAGAGGAGGCTTCCCTCCCGGC 205
 QY 193 SerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSer 212
 Db 204 AGCTCTGAGCTCTCCACGCGAGGAGCTGTGCTTCTCGAGAGCTCCCTCCAGACTCC 145
 QY 213 GlyLysSerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPhe 232
 Db 144 GGTGAAAGTGCAGTGGACCTGGATCCACTGATGCAAGCTCTTCCCGAGCGAGTGGTTT 85
 QY 233 ArgAspCysLysGlyAspProLysHisGlyLysAlaGlyLysArgGlyArgProArgLys 252
 Db 84 CTGACTGCAAGAGGGGATCCCAAGCAGCGGAGCGGAAACGAGGCGCGCCCGGAAAG 25
 QY 253 LeuSerLysGluTrpTrpAspCys 260
 Db 24 CTGAGCAAGAGTACTGGGACTGT 1

RESULT 14

US-09-922-217-944/c
 ; Sequence 944, Application US/09922217
 ; Patent No. US20020076414A1

GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Secretist, Heather
 ; APPLICANT: Benson, Darin R.
 ; APPLICANT: Meagher, Madeleine Joy
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Wang, Tongtong
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Smith, Carole Lynn
 ; APPLICANT: King, Gordon E.
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Clapper, Jonathan D.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 ; FILE REFERENCE: 210121.471C13
 ; CURRENT APPLICATION NUMBER: US/09/922,217
 ; CURRENT FILING DATE: 2001-08-03
 ; NUMBER OF SEQ ID NOS: 1124
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 944
 ; LENGTH: 563
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-922-217-944

Alignment Scores:

Pred. No.: 7 4e-104 Length: 563
 Score: 1011.00 Matches: 187
 Percent Similarity: 100.00% Conservattive: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 51.06% Indels: 0
 DB: 9 Gaps: 0

US-08-978-217-2 (1-371) x US-09-922-217-944 (1-563)

QY 74 AspTrpIleSerTrpGlnValGluLysAsnLysTyrAspAlaSerAlaIleAspPheSer 93
 Db 562 GACTGATCAGCTACCAAGTGGAGAGAAACAAGTACGACGAGCGCCATTGACTTCTCA 503
 QY 94 ArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuVal 113
 Db 502 CGATGTGACATGATGGCGCCACCTCTGCAATTGTGCCCTTGAGGAGCTGGCTCGGTC 443
 QY 114 PheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSer 133
 Db 442 TTTGGGCCCTCTGGGGAGCAACTCCATGCCAGCTGCGAGAGCTTCACTTCCAGCTTCT 383
 QY 134 AspGluLeuSerTrpIleLeuGluLeuGluLysAspGlyMetAlaPheGlnGluAla 153
 Db 382 GATGAGCTCAGTTGGATCATTGAGCTGTGGAGAGGATGGCATGGCCCTTCCAGGAGGCC 323
 QY 154 LeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuLeuAspAspGly 173
 Db 322 CTAGACCCAGGCGCCCTTTGACAGGCGAGCCCTTTGCCAGAGAGCTGTGAGCAGCGGT 263
 QY 174 GlnGlnAlaSerProTrpHisProGlySerCysGlyAlaGlyAlaProSerProGlySer 193
 Db 262 CAGCAGCAGCAGCCCTTACCCAGGCGAGCTGTGGCGCAGAGCCCTTCCCGGCGAGC 203
 QY 194 SerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSerGly 213
 Db 202 TCTGAGCTCTCCACCGCAGGAGCTGTGCTTCTCGAGAGCTCCCACTCTCAGACTCCGCT 143
 QY 214 GlySerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPheArg 233
 Db 142 GGAAGTGCAGTGGACCTGGATCCCACTGATGCAAGCTTCTCCAGCGCATGGTTTTCTGT 83
 QY 234 AspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLysLeu 253
 Db 82 GACTGCAAGAGGGGATCCCAAGCAGCGGAGCGGAAACGAGCGCGGCCCGGAAAGCTG 23
 QY 254 SerLysGluTrpTrpAspCys 260
 Db 22 AGCAAGAGTACTGGGACTGT 2

RESULT 15

US-09-933-263-944/c
 ; Sequence 944, Application US/09933263
 ; Patent No. US20020110547A1

GENERAL INFORMATION:
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Clapper, Jonathan D.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Meagher, Madeleine J.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
 ; FILE REFERENCE: 210121.471C12
 ; CURRENT APPLICATION NUMBER: US/09/833,263
 ; CURRENT FILING DATE: 2001-04-10
 ; NUMBER OF SEQ ID NOS: 1093
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 944
 ; LENGTH: 563
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-09-933-263-944

US-09-933-263-944/c
 ; Sequence 944, Application US/09933263
 ; Patent No. US20020110547A1

GENERAL INFORMATION:
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Clapper, Jonathan D.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Meagher, Madeleine J.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
 ; FILE REFERENCE: 210121.471C12
 ; CURRENT APPLICATION NUMBER: US/09/833,263
 ; CURRENT FILING DATE: 2001-04-10
 ; NUMBER OF SEQ ID NOS: 1093
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 944
 ; LENGTH: 563
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-09-933-263-944

Alignment Scores:

Pred. No.: 7.4e-104 Length: 563
 Score: 1011.00 Matches: 187
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 51.06% Indels: 0
 DB: 10 Gaps: 0

US-08-978-217-2 (1-371) x US-09-833-263-944 (1-563)

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Qy	94	ArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluLeuArgLeuVal	113
Db	502	CGATGTGACATGGATGGCCACCTCTGCAATTGTGCCCTTGAGGAGTGGCTCTGGTC	443
Qy	114	PheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSer	133
Db	442	TTTGGGCTCTGGGGGACCAACTCATGCCAGCTGGAGACCTCACTTCCAGCTCTTCT	393
Qy	134	AspGluLeuSerTrpIleIleGluLeuGluLysAspGlyMetAlaPheGlnGluAla	153
Db	382	GATGAGCTCAGTTGATCATTTAGCTCTCTGGAGAGGATGGCATGGCTTCCAGGAGGC	323
Qy	154	LeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspAspGly	173
Db	322	CTAGACCCAGGGCCCTTTGACCCAGGGCAGGCCCTTTGCCAGGAGCTGTGGACGCGT	263
Qy	174	GlnGlnAlaSerProTyrHisProGlySerCysGlyAlaGlyAlaProSerProGlySer	193
Db	262	CAGCAGCCAGCCCTTACCACCCCGGAGCTGTGGCCAGAGCCCTTCCCCCGGAGC	203
Qy	194	SerAspValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerAspSerGly	213
Db	202	TCTGACGTCTCCACCGCAGGAGCTGTGTCTCTCGAGCTCCCACTCCTCAGACTCCGT	143
Qy	214	GlySerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPheArg	233
Db	142	GGAAGTGACGTGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGTTTCGT	83
Qy	234	AspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLysLeu	253
Db	82	GACTGCAAGAGGGGGATCCCAAGCACGGGAGGGAAACGAGGCCGGCCCCGAAAGCTG	23
Qy	254	SerLysGluTyrTrpAspCys	260
Db	22	AGCAAGAGTACTGGGACTGT	2

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 Job time : 598.395 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 13, 2004, 01:27:22 ; Search time 393.438 Seconds
(without alignments)
10448.744 Million cell updates/sec

Title: US-08-978-217-1

Perfect score: 1116

Sequence: 1 ATGGTGAACCTGTGAGAT.....TTTCCAGATCGGAAGTGA 1116

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/1/pubna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/1/pubna/US06_NEW_PUB.seq:*
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- 10: /cgn2_6/ptodata/1/pubna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/1/pubna/US09C_PUBCOMB.seq:*
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- 17: /cgn2_6/ptodata/1/pubna/US60_NEW_PUB.seq:*
- 18: /cgn2_6/ptodata/1/pubna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1116	100.0	1907	15	US-10-097-340-74
2	1116	100.0	1915	10	US-09-964-824A-101
3	1116	100.0	1915	10	US-09-964-824A-563
4	1116	100.0	1915	10	US-09-880-107-3420
5	1116	100.0	1915	10	US-09-967-768A-192
6	1116	100.0	1917	9	US-09-922-217-1105
7	1116	100.0	1917	14	US-10-025-380-1105
8	1115.6	100.0	1926	9	US-09-925-301-207
9	1114.4	99.9	1956	12	US-10-264-049-756
10	933	83.6	2269	12	US-10-131-410-64
11	624.4	55.9	626	9	US-09-922-217-853
12	624.4	55.9	626	10	US-09-833-263-853
13	624.4	55.9	626	14	US-10-025-380-853
14	561.4	50.3	563	9	US-09-922-217-944
15	561.4	50.3	563	10	US-09-833-263-944

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	17	499.4	44.7	502	9	US-09-604-287A-282	Sequence 282, App
	18	499.4	44.7	502	10	US-09-339-338-282	Sequence 282, App
	19	499.4	44.7	502	11	US-09-551-621-282	Sequence 282, App
	20	499.4	44.7	502	13	US-10-124-805-282	Sequence 282, App
	21	499.4	44.7	502	14	US-10-007-805-282	Sequence 282, App
	22	499.4	44.7	502	15	US-10-076-622-282	Sequence 282, App
	23	455	40.8	499	10	US-09-998-598-2290	Sequence 2290, App
	24	349	33.3	437	10	US-09-998-598-2216	Sequence 2216, App
	25	349	31.3	355	10	US-09-867-701-4818	Sequence 4818, App
	26	236	21.1	275	15	US-10-060-036-3261	Sequence 3261, App
	27	220	19.7	451	10	US-09-998-598-32	Sequence 32, Appl
	28	199	17.8	1435	12	US-10-292-798-1601	Sequence 1601, App
	29	199	17.8	1435	13	US-10-017-161-1953	Sequence 1953, App
	30	175.6	15.7	440	10	US-09-960-352-11873	Sequence 11873, A
	31	174	15.6	174	10	US-09-998-598-1740	Sequence 1740, App
	32	173.8	15.6	852	9	US-09-759-143-44	Sequence 44, Appl
	33	173.8	15.6	852	9	US-09-780-669-44	Sequence 44, Appl
	34	173.8	15.6	852	9	US-09-030-606-44	Sequence 44, Appl
	35	173.8	15.6	852	9	US-09-822-827-44	Sequence 44, Appl
	36	173.8	15.6	852	9	US-09-115-453-44	Sequence 44, Appl
	37	173.8	15.6	852	10	US-09-232-880-44	Sequence 44, Appl
	38	173.8	15.6	852	10	US-09-895-793-44	Sequence 44, Appl
	39	173.8	15.6	852	10	US-09-895-814-44	Sequence 44, Appl
	40	173.8	15.6	852	13	US-10-144-678A-44	Sequence 44, Appl
	41	173.8	15.6	852	13	US-10-294-025-44	Sequence 44, Appl
	42	173.8	15.6	852	14	US-10-012-896-44	Sequence 44, Appl
	43	173.8	15.6	852	15	US-10-010-940-44	Sequence 44, Appl
	44	173.4	15.5	1426	9	US-09-925-297-309	Sequence 309, App
	45	173.4	15.5	1426	15	US-10-106-698-935	Sequence 935, App

ALIGNMENTS

RESULT 1

US-10-097-340-74

; Sequence 74, Application US/10097340

; Publication No. US20030087250A1

; GENERAL INFORMATION:

; APPLICANT: John MONAHAN

; APPLICANT: Manjula GANNAVAPU

; APPLICANT: Sebastian HOERSCH

; APPLICANT: Shubhangi KAMATKAR

; APPLICANT: Steve G. KOVATS

; APPLICANT: Rachel E. MEYERS

; APPLICANT: Michael MORRISSEY

; APPLICANT: Peter OLANDT

; APPLICANT: Ami SEN

; APPLICANT: Peter VEIBY

; APPLICANT: Gordon B. MILLS

; APPLICANT: Robert C. BAST, Jr.

; APPLICANT: Karen LU

; APPLICANT: Rosemarie SCHMANDT

; APPLICANT: Xumei ZHAO

; APPLICANT: Karen GLANT

; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,

; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer

; FILE REFERENCE: MRI-030

; CURRENT APPLICATION NUMBER: US/10/097,340

; CURRENT FILING DATE: 2002-03-14

; PRIOR APPLICATION NUMBER: 60/276,025

; PRIOR FILING DATE: 2001-03-14

; PRIOR APPLICATION NUMBER: 60/325,149

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 60/276,026

; PRIOR FILING DATE: 2001-03-14

; PRIOR APPLICATION NUMBER: 60/324,967

; PRIOR FILING DATE: 2001/09/26

; PRIOR APPLICATION NUMBER: 60/311,732

; PRIOR FILING DATE: 2001-08-10

; PRIOR APPLICATION NUMBER: 60/325,102

; PRIOR FILING DATE: 2001-09-26

;; PRIOR APPLICATION NUMBER: 60/323,580
;; PRIOR FILING DATE: 2001-09-19
;; NUMBER OF SEQ ID NOS: 363
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 74
;; LENGTH: 1907
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-10-097-340-74

Query Match 100.0%; Score 1116; DB 15; Length 1907;
Best Local Similarity 100.0%; Pred. No. 2e-313;
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTATAGCAACTCTTCAGTGGGATGACG 60
DB ATGGCTGCAACCTGTGAGATTAGCAACATTTTATAGCAACTCTTCAGTGGGATGACG 155

QY 61 TGGAGGACTCCACCTGGCTCTGTTCCTCCCTGCTGCCACTTTGGGCGGATGACTTG 120
DB TGGAGGACTCCACCTGGCTCTGTTCCTCCCTGCTGCCACTTTGGGCGGATGACTTG 215

QY 121 GTACTGACCTGTAGCAACCCAGATGTCATTGGAGGCTACAGAGAGGCGCAGCTGGT 180
DB GTACTGACCTGTAGCAACCCAGATGTCATTGGAGGCTACAGAGAGGCGCAGCTGGT 275

QY 181 GGGGAACAGCCCACTTCTGGTTCGAAGACGCGAGTTCCTGGACTGGATCAGCTACCAAGT 240
DB GGGGAACAGCCCACTTCTGGTTCGAAGACGCGAGTTCCTGGACTGGATCAGCTACCAAGT 335

QY 241 GAGAGACAGTACGAGCGGAGCGGCACTTACTTCTCAGATGTGATGATGGGCGCC 300
DB GAGAGACAGTACGAGCGGAGCGGCACTTACTTCTCAGATGTGATGATGGGCGCC 395

QY 301 ACCCTCTGCAATTTGGCCCTTGGAGGCTGGCTCTGGTCTTGGGCGCTTGGGAGCAAA 360
DB ACCCTCTGCAATTTGGCCCTTGGAGGCTGGCTCTGGTCTTGGGCGCTTGGGAGCAAA 455

QY 361 CTCATGCGGAGCTCGGAGACTTACTTCCAGCTCTTCTGATGAGCTGATGATGAT 420
DB CTCATGCGGAGCTCGGAGACTTACTTCCAGCTCTTCTGATGAGCTGATGATGAT 515

QY 421 GAGCTGTGGAGAGATGGATGGCTTCCAGAGGCGCTTCCAGAGGCGCTTCCAGAGGCGCTTGGAC 480
DB GAGCTGTGGAGAGATGGATGGCTTCCAGAGGCGCTTCCAGAGGCGCTTCCAGAGGCGCTTGGAC 575

QY 481 CAGGCGAGCCCTTTGGCCAGAGCTGTGAGCAAGCGTTCAGCAAGCGGCGGCTTACCA 540
DB CAGGCGAGCCCTTTGGCCAGAGCTGTGAGCAAGCGTTCAGCAAGCGGCGGCTTACCA 635

QY 541 CCGGCGAGCTGGGCGAGGAGCGGCGGCTTCCAGAGGCGCTTCCAGAGGCGCTTCCAGAGGCG 600
DB CCGGCGAGCTGGGCGAGGAGCGGCGGCTTCCAGAGGCGCTTCCAGAGGCGCTTCCAGAGGCG 695

QY 601 ACTGCTGTCTTCGAGGCTCCACCTCTCAGACTCCGCTGGAAGTGAAGTGAAGTGAAGT 660
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QY 661 CCCACTGTATGGAAGCTTTCGCCAGAGATGGTTTCTGATCTGCAAGAGGGGATCCC 720
DB CCCACTGTATGGAAGCTTTCGCCAGAGATGGTTTCTGATCTGCAAGAGGGGATCCC 815

QY 721 AAGCAAGGAGGAGGAGGAGGCGGCGGCGGCTTCCAGAGGCTTCCAGAGGAGTGAAGTGAAGT 780
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QY 781 CTCGAGGCGAG 840
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QY 841 GACATCTTCATCCAGCGGAGCTCAAGAGGCGCTTCAAGAGGCGCTTCAAGAGGCGCTTCAAGAG 900
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RESULT 2

US-09-964-824A-101

; Sequence 101, Application US/09964824A

; Patent No. US20020102531A1

; GENERAL INFORMATION:

; APPLICANT: Horrigan, Stephen

; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signal

; TITLE OF INVENTION: Sets

; FILE REFERENCE: 689290-73

; CURRENT APPLICATION NUMBER: US/09/964,824A

; CURRENT FILING DATE: 2001-09-27

; PRIOR APPLICATION NUMBER: US/60/236,033

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,032

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,028

; PRIOR FILING DATE: 2000-09-28

; NUMBER OF SEQ ID NOS: 583

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 101

; LENGTH: 1915

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-964-824A-101

Query Match 100.0%; Score 1116; DB 10; Length 1915;

Best Local Similarity 100.0%; Pred. No. 2e-313;

Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

602	DB	CAGGGCAGCCCTTTTCCAGGAGCTCTGGACACGGTCAGAACGCCACGCCCTACCCAC	661
541	QY	CCCGGACAGCTGTGGCGCAGGAGCCCTCCCTCGGACAGCTCTGACGCTCTCCACCGCAGGG	600
662	DB	CCCGGACAGCTGTGGCGCAGGAGCCCTCCCTCGGACAGCTCTGACGCTCTCCACCGCAGGG	721
601	QY	ACTGGTGCTTCTCGGAGCTCCCACTCTCAGACTCCGGTGGAAAGTACGTGGACCTGGAT	660
722	DB	ACTGGTGCTTCTCGGAGCTCCCACTCTCAGACTCCGGTGGAAAGTACGTGGACCTGGAT	781
661	QY	CCCACTGATGGCAAGCTCTTCCCAGCGATGTGTTTTGCTGACTGCAAGAGGGGGATCCC	720
782	DB	CCCACTGATGGCAAGCTCTTCCCAGCGATGTGTTTTGCTGACTGCAAGAGGGGGATCCC	841
721	QY	AAGCACGGGAAGCGGAAACGAGGCGCGCCCGGAAAGCTGAGCAAAAGTACTGGGACTGT	780
842	DB	AAGCACGGGAAGCGGAAACGAGGCGCGCCCGGAAAGCTGAGCAAAAGTACTGGGACTGT	901
781	QY	CTCAGGGCAAGAGAGCAACGACGCGCCCGAGAGGCCACCCACTGTGGGAGTTTCATCCGG	840
902	DB	CTCAGGGCAAGAGAGCAACGACGCGCCCGAGAGGCCACCCACTGTGGGAGTTTCATCCGG	961
841	QY	GACATCCTCATCCACCGGAGCTCAACGAGGGGCTCATGAAGTGGGAGAAATCGGCATGAA	900
962	DB	GACATCCTCATCCACCGGAGCTCAACGAGGGGCTCATGAAGTGGGAGAAATCGGCATGAA	1021
901	QY	GGGCTCTTCAAGTTTCCTGGCTCCGAGGCTGTGSCCCAACTATGGGGCCAAAAGAAAAG	960
1022	DB	GGGCTCTTCAAGTTTCCTGGCTCCGAGGCTGTGSCCCAACTATGGGGCCAAAAGAAAAG	1081
961	QY	AACAGCAACATGACTTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG	1020
1082	DB	AACAGCAACATGACTTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG	1141
1021	QY	ATCTCTGAAACGGGTGAGTGCCGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC	1080
1142	DB	ATCTCTGAAACGGGTGAGTGCCGCGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC	1201
1081	QY	TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACCTGA	1116
1202	DB	TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACCTGA	1237

RESULT 7	
US-10-025-380-1105	
; Sequence 1105, Application US/10025380	
; Publication No. US20020182191A1	
GENERAL INFORMATION:	
; APPLICANT: Xu Jiangchun	
; APPLICANT: Lodes, Michael J.	
; APPLICANT: Secrist, Heather	
; APPLICANT: Benson, Darin R.	
; APPLICANT: Meagher, Madeleine Joy	
; APPLICANT: Stolk, John A.	
; APPLICANT: Wang, Tongtong	
; APPLICANT: Jiang, Yuqiu	
; APPLICANT: Smith, Carole L.	
; APPLICANT: King, Gordon E.	
; APPLICANT: Wang, Aijun	
; APPLICANT: Clapper, Jonathan D.	
; APPLICANT: Skeiky, Yasir A. W.	
; APPLICANT: Fanger, Gary R.	
; APPLICANT: Vedvick Thomas S.	
; APPLICANT: Carter, Darrick	
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS	
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE	
; FILE REFERENCE: 210121-471C14	
; CURRENT APPLICATION NUMBER: US/10/025,380	
; CURRENT FILING DATE: 2001-12-19	
; NUMBER OF SEQ ID NOS: 1129	
; SOFTWARE: FastSeq for Windows Version 4.0	
; SEQ ID NO 1105	

QY 961 AACAGCAACATGACCTACAGAGAGCTGAGCCGGGCGCATGAGTACTACTACAAACGGGAG 1020
Db 1082 AACAGCAACATGACCTACAGAGAGCTGAGCCGGGCGCATGAGTACTACTACAAACGGGAG 1141
QY 1021 ATCTGGAACGGGTGATGCGCGGCGACTCGTCTCAAGTTTGGCAAAAATCAAGCGGC 1080
Db 1142 ATCTGGAACGGGTGATGCGCGGCGACTCGTCTCAAGTTTGGCAAAAATCAAGCGGC 1201
QY 1081 TGAAGGAGGAGAGGTTCTCCAGAGTCCGAACTGA 1116
Db 1202 TGGAGGAGGAGAGGTTCTCCAGAGTCCGAACTGA 1237

RESULT 8
US-09-925-301-207
; Sequence 207, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 207
; LENGTH: 1996
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-301-207

Query Match 100.0%; Score 1115.6; DB 9; Length 1996;
Best Local Similarity 99.9%; Pred. No. 2.7e-313;
Matches 1115; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTCAGTCCGATGACAGC 60
Db 141 ATGGCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTCAGTCCGATGACAGC 200

QY 61 TCGGAGGACTCCACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 201 TCGGAGGACTCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 260

QY 121 GTACTGACCTGAGCAACCCCGAGATGTCATTGGAGGGTACAGAGAGCCAGCTGGTTG 180
Db 261 GTACTGACCTGAGCAACCCCGAGATGTCATTGGAGGGTACAGAGAGCCAGCTGGTTG 320

QY 181 GGGGAACAGCCCGAGTCTGCTGAGAGCGAGGTTCTGGAGTGCATGATGATGATGATGATG 240
Db 321 GGGGAACAGCCCGAGTCTGCTGAGAGCGAGGTTCTGGAGTGCATGATGATGATGATGATG 380

QY 241 GAGAAGCAACGATGACGAGCGGCGCATGCTCTCAGCATGTGACATGATGATGATGATGATG 300
Db 381 GAGAAGCAACGATGACGAGCGGCGCATGCTCTCAGCATGTGACATGATGATGATGATGATG 440

QY 301 ACCCTGTCAATTTGCTGCTGAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
Db 441 ACCCTGTCAATTTGCTGCTGAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 500

QY 361 CTCATGCGCCAGTGGAGACCTCACTTCCAGCTCTCTGATGATGATGATGATGATGATGATG 420
Db 501 CTCATGCGCCAGTGGAGACCTCACTTCCAGCTCTCTGATGATGATGATGATGATGATGATG 560

QY 421 GAGCTGCTGAGAGGATGAGTGGCTTTCCAGGAGGCGCTTAGACCCAGGCGCTTTGAC 480
Db 561 GAGCTGCTGAGAGGATGAGTGGCTTTCCAGGAGGCGCTTAGACCCAGGCGCTTTGAC 620

QY 481 CAGGGCAGCCCTTTGCCAGGAGGCTGCTGAGAGGCTGCTGAGAGGCTGCTGAGAGGCTGCTG 540

Db 621 CAGGCGAGCCCTTTTCCCGAGGAGCTGCTGGACGACGGTCAAGCAAGCCAGCCCTTACCAC 680
QY 541 CCGGCGAGCTGTCGCGCAGAGAGCCCTCCCTCCCTGGCAGCTCTGACCTCTCCACCGCAGG 600
Db 681 CCGGCGAGCTGTCGCGCAGAGAGCCCTCCCTCCCTGGCAGCTCTGACCTCTCCACCGCAGG 740
QY 601 ACTGGTCTTCTCGGAGCTCCCACTCTCTCAGACTCCGGTGGAGTCACTGGACCTGGAT 660
Db 741 ACTGGTCTTCTCGGAGCTCCCACTCTCTCAGACTCCGGTGGAGTCACTGGACCTGGAT 800

QY 561 CCACTGATGCGAAGCTCTTCCCGCAGGATGTTTCTGCTGCTGCAAGAGGGGATCCC 720
Db 801 CCACTGATGCGAAGCTCTTCCCGCAGGATGTTTCTGCTGCTGCAAGAGGGGATCCC 860

QY 721 AAGCAGCGGAAGCGGAAACGAGGCGCCCGCCGAAAGCTGAGCAAAAGAGTACTGGGACTGT 780
Db 861 AAGCAGCGGAAGCGGAAACGAGGCGCCCGCCGAAAGCTGAGCAAAAGAGTACTGGGACTGT 920

QY 781 CTGAGGGCAAGAGCAAGCAAGCAGCGCGCCCGCAGAGGCAACCACTGTGGGAGTTTCATCCG 840
Db 921 CTGAGGGCAAGAGCAAGCAAGCAGCGCGCCCGCAGAGGCAACCACTGTGGGAGTTTCATCCG 980

QY 841 GACATCTCTATCCACCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA 900
Db 981 GACATCTCTATCCACCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA 1040

QY 901 GGGCTCTTCAAGTCTCTGCGCTCCGAGGCTGTGGCCAACTATGGGCGCAAAAGAAAAAG 960
Db 1041 GGGCTCTTCAAGTCTCTGCGCTCCGAGGCTGTGGCCAACTATGGGCGCAAAAGAAAAAG 1100

QY 961 AACAGCAACATGACCTACGAGAGCTGAGCGGCGCATGAGGTACTACTACAAACGGGAG 1020
Db 1101 AACAGCAACATGACCTACGAGAGCTGAGCGGCGCATGAGGTACTACTACAAACGGGAG 1160

QY 1021 ATCTGGAACGGGTGATGCGCGGCGACTCGTCTACAAGTTTGGCAAAAATCAAGCGGC 1080
Db 1161 ATCTGGAACGGGTGATGCGCGGCGACTCGTCTACAAGTTTGGCAAAAATCAAGCGGC 1220

QY 1081 TGAAGGAGGAGAGGTTCTCCAGAGTCCGAACTGA 1116
Db 1221 TGAAGGAGGAGAGGTTCTCCAGAGTCCGAACTGA 1256

RESULT 9
US-10-264-049-756
; Sequence 756, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Bizse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133p1
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 756
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-264-049-756

Query Match 99.9%; Score 1114.4; DB 12; Length 1956;
Best Local Similarity 99.6%; Pred. No. 5.9e-313;
Matches 1112; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTCAGTCCGATGATGACAGC 60
Db 161 ATGGCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTCAGTCCGATGATGACAGC 220

Db 602 GAAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGGCAGAGAGCAAGCAAGCGGCCCA 661
Qy 812 GAGGACCCACTGTGGAGTTCTCCGGGATCTCTCATCTCCACCGGAGCTCAACGAGG 871
Db 662 GAGGACCCACTGTGGAGTTCTCCGGGATCTCTCATCTCCACCGGAGCTCAACGAGG 721
Qy 872 GCCTCATCAAGTGGGAGAAATCGGCATGAAGCGCTCTCAAGTTCTCGCTCCGAGGCTG 931
Db 722 GCCTCATCAAGTGGGAGAAATCGGCATGAAGCGCTCTCAAGTTCTCGCTCCGAGGCTG 781
Qy 932 TGGCCCAACTATGGGCGCAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 991
Db 782 TGGCCCAACTATGGGCGCAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 841
Qy 992 GGGCCATCAGGTACTACTACAAAGGGAGATCTTGGACGGGTGGATGGCGGCGACTCG 1051
Db 842 GGGCCATCAGGTACTACTACAAAGGGAGATCTTGGACGGGTGGATGGCGGCGACTCG 901
Qy 1052 TCTCAAGTTTGGCAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 1111
Db 902 TCTCAAGTTTGGCAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 961
Qy 1112 ACTGA 1116
Db 962 ACTGA 966

RESULT 11
US-09-922-217-853/c
; Sequence 853, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-853

Query Match 55.9%; Score 624.4; DB 9; Length 626;
Best Local Similarity 99.8%; Pred. No. 6.5e-171;
Matches 625; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 155 AGGGTACAGAGAGCCAGCTGGTTGGGGGAAACAGCCCGCTTCTGGTTCGAGAGCGCAGG 214
Db 626 AGGGTACAGAGAGCCAGCTGGTTGGGGGAAACAGCCCGCTTCTGGTTCGAGAGCGCAGG 567
Qy 215 TTCTGAGCTGGATCAGTACCAAGTGGAGAGAAACAGTACGACCAAGCGCCATTGACT 274
Db 566 TTCTGAGCTGGATCAGTACCAAGTGGAGAGAAACAGTACGACCAAGCGCCATTGACT 507
Qy 275 TCTCAGATGTGACATGGATGGCGCACCCCTCTGCAATTGTGCCCCCTTGGAGAGCTGGTC 334
Db 506 TCTCAGATGTGACATGGATGGCGCACCCCTCTGCAATTGTGCCCCCTTGGAGAGCTGGTC 447

Qy 335 TGGTCTTTGGGCTCTGGGGACCAACTCCATGCCAGCTCGAGACCTCACTTCCAGCT 394
Db 446 TGGTCTTTGGGCTCTGGGGACCAACTCCATGCCAGCTCGAGACCTCACTTCCAGCT 387
Qy 395 TTCTGATGAGCTCAGTTGGATCATTTGAGCTGCTCGAGAGAGATGGCATGGCTTCCAGG 454
Db 386 TTCTGATGAGCTCAGTTGGATCATTTGAGCTGCTCGAGAGAGATGGCATGGCTTCCAGG 327
Qy 455 AGGCTCTAGACCCAGGGCCCTTTGACAGGGGAGCCCTTTGGCCAGAGAGCTGCTGGAGC 514
Db 326 AGGCTCTAGACCCAGGGCCCTTTGACAGGGGAGCCCTTTGGCCAGAGAGCTGCTGGAGC 267
Qy 515 AGGCTCAGCAAGCCAGCCCTTACCAACCCCGGAGCTGTGGCGCAGGAGCCCTTCCCTG 574
Db 266 AGGCTCAGCAAGCCAGCCCTTACCAACCCCGGAGCTGTGGCGCAGGAGCCCTTCCCTG 207
Qy 575 GAGCTCTGACCTCTCCACCGGAGGACTGTGCTTCTCGGAGCTCCCACTCTCAGACT 634
Db 206 GAGCTCTGACCTCTCCACCGGAGGACTGTGCTTCTCGGAGCTCCCACTCTCAGACT 147
Qy 635 CCGGTGGAAGTGCAGCTGGACCTGGATCCCACTGTATGGCAAGCTCTTCCCGAGCGATGTT 694
Db 146 CCGGTGGAAGTGCAGCTGGACCTGGATCCCACTGTATGGCAAGCTCTTCCCGAGCGATGTT 87
Qy 695 TTCTGAGCTGCAAGAGGGGGATCCCAAGCAGCGGAGAGCGGAAACAGGCGGCCCCCGAA 754
Db 86 TTCTGAGCTGCAAGAGGGGGATCCCAAGCAGCGGAGAGCGGAAACAGGCGGCCCCCGAA 27
Qy 755 AGCTGAGCAAGAGTACTGGGACTGT 780
Db 26 AGCTGAGCAAGAGTACTGGGACTGT 1

RESULT 12
US-09-833-263-853/c
; Sequence 853, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-853

Query Match 55.9%; Score 624.4; DB 10; Length 626;
Best Local Similarity 99.8%; Pred. No. 6.5e-171;
Matches 625; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 155 AGGGTACAGAGAGCCAGCTGGTTGGGGGAAACAGCCCGCTTCTGGTTCGAGAGCGCAGG 214
Db 626 AGGGTACAGAGAGCCAGCTGGTTGGGGGAAACAGCCCGCTTCTGGTTCGAGAGCGCAGG 567
Qy 215 TTCTGAGCTGGATCAGTACCAAGTGGAGAGAAACAGTACGACCAAGCGCCATTGACT 274
Db 566 TTCTGAGCTGGATCAGTACCAAGTGGAGAGAAACAGTACGACCAAGCGCCATTGACT 507
Qy 275 TCTCAGATGTGACATGGATGGCGCACCCCTCTGCAATTGTGCCCCCTTGGAGAGCTGGTC 334
Db 506 TCTCAGATGTGACATGGATGGCGCACCCCTCTGCAATTGTGCCCCCTTGGAGAGCTGGTC 447
Qy 335 TGGTCTTTGGGCTCTGGGGGACCAACTCCATGCCAGCTCGAGACCTCACTTCCAGCT 394

Best Local Similarity 99.8%; Pred. No. 1.2e-152;
Matches 562; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	219	GGACTGATCAGTACCAAGTGGAGAGACAAAGTACGACGCAAGGCCATTGACTTCTC	278
Db	563	GGACTGATCAGTACCAAGTGGAGAGACAAAGTACGACGCAAGGCCATTGACTTCTC	504
Qy	279	ACGATGATCAGTATGGGCGCACCTCTGCAATTTGGCCCTTGGAGAGCTCGCTCTGT	338
Db	503	ACGATGATCAGTATGGGCGCACCTCTGCAATTTGGCCCTTGGAGAGCTCGCTCTGT	444
Qy	339	CTTTGGCCCTCTGGGCGCAACTCCATGCCAGCTGGAGACCTCACTTCAGCTCTTC	398
Db	443	CTTTGGCCCTCTGGGCGCAACTCCATGCCAGCTGGAGACCTCACTTCAGCTCTTC	384
Qy	399	TGATGAGCTCAGTTGGATCATTTGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	458
Db	383	TGATGAGCTCAGTTGGATCATTTGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	324
Qy	459	CCTAGACCCAGGCGCTTTGACAGGCGAGCCCTTTGCCAGGAGCTGCTGGACGCGG	518
Db	323	CCTAGACCCAGGCGCTTTGACAGGCGAGCCCTTTGCCAGGAGCTGCTGGACGCGG	264
Qy	519	TGAGTGAAGTGAAGTGGATGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	578
Db	263	TGAGTGAAGTGAAGTGGATGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	204
Qy	579	CTCTGAGCTCTCCACCGCAGGAGTGGTCTTCTCGAGCTCCCACTCTCTCAGACTCCGG	638
Db	203	CTCTGAGCTCTCCACCGCAGGAGTGGTCTTCTCGAGCTCCCACTCTCTCAGACTCCGG	144
Qy	639	TGGAAGTGAAGTGGATGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	698
Db	143	TGGAAGTGAAGTGGATGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	84
Qy	699	TGACTGCAAGAGTGGATGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	758
Db	83	TGACTGCAAGAGTGGATGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	24
Qy	759	GAGCAAGAGTGGATGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	781
Db	23	GAGCAAGAGTGGATGAGCTGTGGAGAGGATGGCATGGCCCTTCAGGAGC	1

RESULT 15

US-09-833-263-944/c
; Sequence 944, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-944

Query Match 50.3%; Score 561.4; DB 10; Length 563;
Best Local Similarity 99.8%; Pred. No. 1.2e-152;
Matches 562; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	219	GGACTGATCAGTACCAAGTGGAGAGACAAAGTACGACGCAAGGCCATTGACTTCTC	278
Db	563	GGACTGATCAGTACCAAGTGGAGAGACAAAGTACGACGCAAGGCCATTGACTTCTC	504

Search completed: February 13, 2004, 11:48:18
Job time : 396.438 secs